

VIA ELECTRONIC MAIL

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Date: January 19, 2024

Our Ref: 30205536.0400

Subject: Hercules Hattiesburg Facility – Hattiesburg, MS – Monthly Progress Report (December 2023)

USEPA Region IV, RCRA 3013(a) Administrative Order
Docket # RCRA-04-2011-4251

USEPA Region IV, RCRA 3008(h) Administrative Order on Consent
Docket # RCRA-04-2014-4201(b)

USEPA Region IV, CERCLA Administrative Settlement Agreement and Order on Consent
Docket # 04-2023-2521

Dear Ms. Lloyd and Mr. Budeir:

This *Monthly Progress Report* summarizes the activities accomplished between December 1 and December 31, 2023, per the 2011 Resource Conservation and Recovery Act (RCRA) 3013(a) Administrative Order, the 2014 RCRA 3008(h) Administrative Order on Consent, and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Administrative Settlement Agreement and Order on Consent (ASAOC) for the Remedial Investigation (RI)/Feasibility Study (FS) for the former Hercules LLC (Hercules) site in Hattiesburg, Mississippi, referred to herein as “the site.”

Tasks Initiated, Continued, or Completed during December 2023

The following summary is intended to memorialize significant activities (e.g., conference calls, technical deliverables, correspondence) performed throughout the reporting period, and is not intended to capture all email correspondence between the U.S. Environmental Protection Agency (USEPA) and Hercules over the current month.

- Received a letter from the USEPA on December 1, 2023, with subject: *EPA response to Hercules submittals included: Incomplete Redline Strikeout of the Revised VII WP Addendum, Hercules Responses to EPA Comments (submitted on 10/25-26/23, Hercules Attachment B2, Hercules Attachment D, and Attachment E submitted via email on 11/27/23 at 5:41 PM)*. Subsequently, participated in a conference call with the USEPA that same day to discuss those comments and the path forward for finalizing the *Revised Addendum to the Vapor Intrusion Investigation Work Plan*.
- Submitted the *RI/FS Work Plan* on December 4, 2023, as required by the USEPA.
- Submitted a letter to the USEPA and the Mississippi Department of Environmental Quality (MDEQ) (together, the Agencies) on December 12, 2023, with a proposed approach for selection of soil gas sampling intervals to be used during the vapor intrusion investigation activities scheduled for January 2024.
- Participated in a conference call with the Agencies on December 13, 2023, to discuss additional implementation details for the next phase of the vapor intrusion investigation. Also, received an email from the USEPA that same day with comments on the proposed approach for selection of soil gas sampling intervals submitted on December 12, 2023.
- Submitted an updated version of the *Revised Addendum to Vapor Intrusion Investigation Work Plan* on December 15, 2023, as discussed with the USEPA. The document indicated a mobilization date for field implementation of January 8, 2024, as requested by the USEPA.
- Submitted the *Monthly Progress Report* for November 2023 to the Agencies on December 20, 2023.
- Received a letter from the USEPA on December 21, 2023, titled: *EPA Addendum Hercules/Arcadis Revised Vapor Intrusion Investigation Work Plan Addendum, Hercules, Inc. Superfund Site, Hattiesburg Mississippi*, containing additional comments regarding the scope for the next phase of the vapor intrusion investigation. Subsequently, participated in a conference call with the USEPA that same day to discuss those comments.
- Submitted an updated version of the *Revised Addendum to Vapor Intrusion Investigation Work Plan* on December 29, 2023, as requested by the USEPA. The document incorporated the additional comments from the USEPA and confirmed a mobilization date for field implementation of January 8, 2024.
- Initiated data evaluation for groundwater and surface water samples collected during the semiannual monitoring event collected in November 2023, which included sampling under the Restrictive Use Agreed Order (RUAO), Area #1, Area #2, Area #3, Poly Pale™ Area, and Northeast Delineation monitoring programs, as agreed in the ASAO. Copies of the laboratory analytical reports are provided in **Attachment A**. Data summary tables are provided in **Table 1** and **Table 2** for groundwater within the alluvial aquifer and surface water from Greens Creek, respectively. **Table 3** present analytical data for quality assurance/quality control samples.

Challenges and/or Delays

- None this period.

Tasks Planned for Next Three Months (January – March 2024)

- Complete the next phase of the vapor intrusion investigation, as described in the December 29, 2023 *Revised Addendum to Vapor Intrusion Investigation Work Plan*, and approved by the USEPA on January 5, 2024. Field work was initiated on January 8, 2024.

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- Initiate preparation of a *Supplemental Vapor Intrusion Investigation Summary Report* addressing previous comments from the USEPA and documenting the results of the next phase of the vapor intrusion investigation. As agreed with USEPA, the report will be due six weeks following the final field activity.
- Participate in a meeting with the Agencies to discuss the contents of the *RI/FS Work Plan* and obtain approval for implementation. The meeting was originally scheduled for January 17, 2024, but the USEPA notified the team that the meeting would need to be rescheduled (tentatively set for February 28, 2024).
- Preparation of the RI Deliverables specified in Section 4.5 of the Statement of Work (Appendix B of the ASAO).
- Preparation and submittal of the *2023 Second Semiannual Consolidated Monitoring Report* summarizing the November 2023 sampling events for the RUAO, Area #1, Area #2, Area #3, Poly Pale™ Area, and Northeast Delineation monitoring programs.

Personnel and/or Project Changes

- None.

Community Involvement

- The USEPA provided notifications to the community on December 18, 2023, regarding implementation of the next phase of the vapor intrusion investigation during the week January 8, 2024.

USEPA/MDEQ Support Needed

- Hercules and the Agencies continue to participate in working meetings to discuss technical aspects of the vapor intrusion investigation and the *RI/FS Work Plan*.

The Hercules team appreciates your support with this project. If there are any questions concerning this submittal, please contact the Project Coordinator, Mr. Timothy Hassett, at 302-995-3456 or Mr. Corey Averill with Arcadis at 315-671-9224.

Sincerely,

Arcadis U.S., Inc.



Corey Averill
Certified Project Manager

Email: Corey.Averill@arcadis.com
Direct Line: 315-671-9224

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CC. Cassandra Johnson – MDEQ, Jackson, MS (electronic)
Thomas Wallace – MDEQ, Jackson, MS (electronic)
Chrissy Piechoski – Hercules, Wilmington, DE (electronic)
Timothy Hassett – Hercules, Wilmington, DE (electronic)
Gloria Tatum – Tatum & Associates, Jackson, MS (electronic)

Tables

Table 1
Groundwater Analytical Results - Shallow Alluvial Aquifer
Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-01	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07	MW-08	Duplicate MW-08	MW-09	MW-10	MW-11	MW-12	MW-13	MW-14
				Sample Date:	11/7/2023	11/7/2023	11/7/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023	11/8/2023	11/7/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023
				Program:	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO Poly Pale	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO
Volatile Organic Compounds Method 8260B																			
1,1,1,2-Tetrachloroethane	0.57	NS	0.405735883		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U	<1.00 U
1,1,1-Trichloroethane	8000	200	200		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U	<5.00 U
1,1,2,2-Tetrachloroethane	0.076	NS	0.052745665		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U	<1.00 U
1,1,2-trichloro-1,2,2-trifluoroethane	10000	NS	59375.78815		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<20.0 U	<10.0 U	<10.0 U
1,1,2-Trichloroethane	0.28	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U	<1.00 U
1,1-Dichloroethane	2.8	NS	798.4375		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U	<1.00 U
1,1-Dichloroethene	280	7	7		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	1.10	<1.00 U
1,2,3-Trichloropropane	0.00075	NS	0.006233456		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U	<1.00 U
1,2,4-Trimethylbenzene	56	NS	12.32618196		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	0.704 J	0.673 J	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U	<1.00 U
1,2-Dibromo-3-chloropropane	0.00033	0.2	0.2		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U	<5.00 U
1,2-Dibromoethane	0.0075	0.05	0.05		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U	<5.00 U
1,2-Dichloroethane	0.17	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U	<1.00 U
1,2-Dichloropropane	0.85	5	5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U	<5.00 U
1,3,5-Trimethylbenzene	60	NS	12.32618196		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U	<1.00 U
1,3-Butadiene	0.071	NS	0.006956356		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U	<1.00 U
2,2,4-Trimethylpentane	NS	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U	<5.00 U
2-Butanone (MEK)	5600	NS	1906.086427		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<100 U	<50.0 U	<50.0 U
2-Chlor-1,3-Butadiene	0.019	NS	14.31372549		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U	<5.00 U
2-Methyl-1-propanol	730	NS	1825		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<100 U	<50.0 U	<50.0 U
4-Methyl-2-Pentanone	6300	NS	139.047619		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<100 U	<50.0 U	<50.0 U
Acetone	18000	NS	608.3333333		<100 U	<100 U	<100 U	<100 U	9.39 J	<100 U	<100 U	<100 U	6.49 J	<100 U	<100 U	<100 U	<200 U	<100 U	7.07 J
Acetonitrile	130	NS	125.1428571		<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<200 U	<100 U	<100 U
Acrolein	0.042	NS	0.041607628		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<100 U	<50.0 U	<50.0 U
Acrylonitrile	0.052	NS	0.036724017		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<100 U	<50.0 U	<50.0 U
Allyl chloride	0.73	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U	<5.00 U
Benzene	0.46	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	437	416	<1.00 U	<1.00 U	<1.00 U	<2.00 U	380	<1.00 U
Benzyl Chloride	0.089	NS	0.062053723		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U	<5.00 U
Bromodichloromethane	0.13	80	0.167866259		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U	<1.00 U
Bromoform	3.3	80	8.477528742		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U	<5.00 U
Bromomethane	7.5	NS	8.516666667		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U	<5.00 U
Carbon Disulfide	810	NS	1042.857143		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U	<5.00 U
Carbon Tetrachloride	0.46	5	5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	2070	2030	<5.00 U	<5.00 U	<5.00 U	<10.0 U	1450	<5.00 U
CFC-11	5200	NS	1288.235294		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U	<1.00 U
CFC-12	200	NS	347.6190476		<1.00 U*1	<1.00 U	<1.00 U	<1.00 U*1	<1.00 U*1	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U*1	<2.00 U	<1.00 U
Chlorobenzene	78	100	100		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	91.3	88.8	<1.00 U	<1.00 U	<1.00 U	<2.00 U	21.6	<1.00 U

Table 1
Groundwater Analytical Results - Shallow Alluvial Aquifer
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MDEQ AI No. 2022



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-01	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07	MW-08	Duplicate MW-08	MW-09	MW-10	MW-11	MW-12	MW-13	MW-14
				Sample Date:	11/7/2023	11/7/2023	11/7/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023	11/8/2023	11/7/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023
				Program:	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO Poly Pale	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO
Volatile Organic Compounds Method 8260B (continued)																			
n-Propylbenzene	660	NS	243.3333333		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U	<1.00 U
o-Xylene	190	NS	12166.66667		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	4.72	4.55	<1.00 U	<1.00 U	<1.00 U	<2.00 U	1.10	<1.00 U
Propionitrile	NS	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<20.0 U	<10.0 U	<10.0 U
Styrene (Monomer)	1200	100	100		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U	<1.00 U
Tetrachloroethene	11	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	2.22	2.05	<1.00 U	<1.00 U	<1.00 U	<2.00 U	0.660 J	<1.00 U
Tetrahydrofuran	3400	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<20.0 U	<10.0 U	<10.0 U
Toluene	1100	1000	1000		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	2.10	1.97	<1.00 U	<1.00 U	<1.00 U	<2.00 U	1.04	<1.00 U
Total Xylenes	190	10000	10000		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	9.98 J	9.71 J	<10.0 U	<10.0 U	<10.0 U	<20.0 U	2.66 J	<10.0 U
trans-1,2-Dichloroethene	68	100	100		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<1.00 U	<1.00 U
trans-1,3-Dichloropropene	NS	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U	<5.00 U
trans-1,4-Dichloro-2-butene	0.0013	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<20.0 U	<10.0 U	<10.0 U
Trichloroethene	0.49	5	5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<5.00 U	<5.00 U
Vinyl acetate	410	NS	412.1235491		<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<40.0 U	<20.0 U	<20.0 U
Vinyl chloride	0.019	2	2		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<4.00 U	<2.00 U	<2.00 U
Semivolatile Organic Compounds Method 8270D																			
1,1-Biphenyl	0.83	NS	304.1666667		0.841 J	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	0.908 J	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,2,4,5-Tetrachlorobenzene	0.17	NS	10.95		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,2,4-Trichlorobenzene	1.2	70	70		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,2-Dichlorobenzene	300	600	600		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	0.370 J	<2.00 U
1,3,5-Trinitrobenzene	590	NS	1095		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,3-Dichlorobenzene	NS	NS	5.475		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,3-Dinitrobenzene	2	NS	3.65		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,4-Dichlorobenzene	0.48	75	75		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	0.468 J	<2.00 U
1,4-Dioxane	0.46	NS	6.088407006		<0.581 U	0.280 J	0.492 J	3.51	353	<0.631 U	0.970	574	559	15.0	0.259 J	0.172 J	<0.667 U	200	274
1,4-Naphthoquinone	NS	NS	NS		<8.00 U	<8.00 U	<80.0 U	<8.00 U	<40.0 U	<8.00 U	<8.00 U	<80.0 U	<80.0 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
1-Naphthylamine	NS	NS	NS		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,2-Oxybis(1-Chloropropane)	710	NS	0.2603888		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,3,4,6-Tetrachlorophenol	240	NS	1095		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,4,5-Trichlorophenol	1200	NS	3650		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,4,6-Trichlorophenol	4.1	NS	6.088407006		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,4-Dichlorophenol	46	NS	109.5		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,4-Dimethylphenol	360	NS	730		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,4-Dinitrophenol	39	NS	73		<8.00 U	<8.00 U	<80.0 U	<8.00 U	<40.0 U	<8.00 U	<8.00 U	<80.0 U	<80.0 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
2,4-Dinitrotoluene	0.24	NS	73		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,6-Dichlorophenol	NS	NS	NS		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,6-Dinitrotoluene	0.049	NS	36.5		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2-Acetylaminofluorene	0.016	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<8.00 U	<8.00 U	<80.0 U	<80.0 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
2-Chloronaphthalene	750	NS	486.666666																

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Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-01	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07	MW-08	Duplicate MW-08	MW-09	MW-10	MW-11	MW-12	MW-13	MW-14
				Sample Date:	11/7/2023	11/7/2023	11/7/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023	11/8/2023	11/7/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023
				Program:	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO Poly Pale	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO
Semivolatile Organic Compounds Method 8270D (continued)																			
4-Dimethylaminoazobenzene	0.005	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<8.00 U	<8.00 U	<80.0 U	<80.0 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
4-Nitroaniline	3.8	NS	NS		<4.00 U	<4.00 U	<40.0 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
4-Nitroquinoline-N-Oxide	NS	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
5-Nitro-o-Toluidine	8.2	NS	2.029469002		<8.00 U	<8.00 U	<80.0 U	<8.00 U	<40.0 U	<8.00 U	<8.00 U	<80.0 U	<80.0 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
7,12-Dimethylbenz(a)anthracene	0.0001	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<8.00 U	<8.00 U	<80.0 U	<80.0 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Acenaphthene	530	NS	365		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Acenaphthylene	NS	NS	2190		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Acetophenone ⁽¹⁾	1900	NS	NS		<4.00 U	<4.00 U	<40.0 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Aniline	13	NS	11.74955738		<4.00 U	<4.00 U	<40.0 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Anthracene	1800	NS	43.4		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<2.00 U	0.156 J	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Aramite	1.3	NS	NS		<4.00 U	<4.00 U	<40.0 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Aramite Peak 1	NS	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Aramite Peak 2	NS	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Benz(a)anthracene	0.03	NS	0.091743119		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Benzo(a)pyrene	0.025	0.2	0.2		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Benzo(b)fluoranthene	0.25	NS	0.091743119		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Benzo(g,h,i)perylene	NS	NS	1095		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Benzo(k)fluoranthene	2.5	NS	0.917431193		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Benzyl Alcohol	2000	NS	10950		<8.00 U	<8.00 U	<80.0 U	<8.00 U	<40.0 U	<8.00 U	<8.00 U	<80.0 U	<80.0 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
bis(2-Chloroethoxy)methane	59	NS	NS		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
bis(2-Chloroethyl)ether	0.014	NS	0.009202473		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
bis(2-Ethylhexyl)phthalate	5.6	6	6		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Butyl benzyl phthalate	16	NS	2690		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Chrysene	25	NS	9.174311927		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Diallate	0.54	NS	NS		<8.00 U	<8.00 U	<80.0 U	<8.00 U	<40.0 U	<8.00 U	<8.00 U	<80.0 U	<80.0 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Diallate Peak 1	NS	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<8.00 U	<8.00 U	<80.0 U	<80.0 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Diallate Peak 2	NS	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<8.00 U	<8.00 U	<80.0 U	<80.0 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Dibenz(a,h)anthracene	0.025	NS	0.009174312		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Dibenzofuran	7.9	NS	24.33333333		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Diethyl phthalate	15000	NS	29200		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Dimethoate	44	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<8.00 U	<8.00 U	<80.0 U	<80.0 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Dimethyl phthalate	NS	NS	365000		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Dimethylphenethylamine	NS	NS	NS		<4.00 U	<4.00 U	<40.0 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Di-n-butyl phthalate	900	NS	3650		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<2.00 U	40.1	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	25.3	<2.00 U	23.4
Di-n-octyl phthalate	200	NS	20		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Dinoseb	15	7	7		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0						

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Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-01	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07	MW-08	Duplicate MW-08	MW-09	MW-10	MW-11	MW-12	MW-13	MW-14
				Sample Date:	11/7/2023	11/7/2023	11/7/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023	11/8/2023	11/7/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023
				Program:	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO Poly Pale	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO
Semivolatile Organic Compounds Method 8270D (continued)																			
Naphthalene	0.12	NS	6.203966006		0.597 J	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Nitrobenzene	0.14	NS	3.532258065		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosodiethylamine	0.00017	NS	0.000446483		<4.00 U	<4.00 U	<40.0 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
N-Nitrosodimethylamine	0.00011	NS	0.001313186		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosodi-n-butylamine	0.0027	NS	0.001894431		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosodi-n-propylamine	0.011	NS	0.009567497		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosodiphenylamine	12	NS	13.66785246		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosomorpholine	0.012	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
N-Nitroso-N-methylethylamine	0.00071	NS	0.003044204		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosopiperidine	0.0082	NS	NS		<4.00 U	<4.00 U	<40.0 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
N-Nitrosopyrrolidine	0.037	NS	0.031891656		<4.00 U	<4.00 U	<40.0 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
o,o,o-Triethyl phosphorothioate	NS	NS	NS		<8.00 U	<8.00 U	<80.0 U	0.221 J	12.1 J	<8.00 U	<8.00 U	649	671	0.488 J	<8.00 U	<8.00 U	<8.00 U	63.8	45.4
o,o-Diethyl o-pyrazinyl phosphorothioate	NS	NS	NS		<8.00 U	<8.00 U	<80.0 U	<8.00 U	<40.0 U	<8.00 U	<8.00 U	<80.0 U	<80.0 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
o-Toluidine	4.7	NS	0.279051988		<8.00 U	<8.00 U	<80.0 U	<8.00 U	<40.0 U	<8.00 U	<8.00 U	<80.0 U	<80.0 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Parathion	86	NS	219		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
p-Chloroaniline	0.37	NS	146		<4.00 U	<4.00 U	<40.0 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Pentachlorobenzene	3.2	NS	29.2		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Pentachloronitrobenzene	0.12	NS	0.25758645		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Pentachlorophenol	0.041	1	1		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	10.1 J	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Phenacetin	34	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<8.00 U	<8.00 U	<80.0 U	<80.0 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Phenanthrene	NS	NS	1095		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Phenol	5800	NS	21900		<4.00 U	<4.00 U	<40.0 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	0.905 J	0.608 J
Phorate	3	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<8.00 U	<8.00 U	<80.0 U	<80.0 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
p-Phenylenediamine	20	NS	6935		<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<50.0 U*-	<10.0 U*-	<10.0 U*-	<100 U*-	<100 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-
Propyzamide	1200	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Pyrene	120	NS	182.5		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<20.0 U	<20.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Pyridine	20	NS	36.5		<2.00 U	<2.00 U	<20.0 U	<2.00 U	<10.0 U	<2.00 U*-	<2.00 U*-	<20.0 U	<20.0 U	<2.00 U*-	<2.00 U	<2.00 U	<2.00 U*-	<2.00 U	<2.00 U*-
Safrole	0.096	NS	NS		<4.00 U	<4.00 U	<40.0 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Sulfotep	7.1	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<4.00 U	<4.00 U	<40.0 U	<40.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U

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Table 1
Groundwater Analytical Results - Shallow Alluvial Aquifer
Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26D	MW-27D	MW-27S	MW-28D
				Sample Date:	11/9/2023	11/9/2023	11/9/2023	11/8/2023	11/7/2023	11/7/2023	11/9/2023	11/7/2023	11/9/2023	11/7/2023	11/14/2023	11/16/2023	11/15/2023	11/15/2023	11/16/2023
				Program:	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	Area #1	Area #1	Area #1	Area #1	Area #1
Volatile Organic Compounds Method 8260B																			
1,1,1,2-Tetrachloroethane	0.57	NS	0.405735883		<1.00 U	<1.00 U	2.48	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	<100 U
1,1,1-Trichloroethane	8000	200	200		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<1000 U	<5.00 U	<5.00 U	<500 U
1,1,2,2-Tetrachloroethane	0.076	NS	0.052745665		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	<100 U
1,1,2-trichloro-1,2,2-trifluoroethane	10000	NS	59375.78815		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<500 U	<10.0 U	<500 U	<10.0 U	<20.0 U	<2000 U	<10.0 U	<10.0 U	<1000 U
1,1,2-Trichloroethane	0.28	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	<100 U
1,1-Dichloroethane	2.8	NS	798.4375		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	<100 U
1,1-Dichloroethene	280	7	7		<1.00 U	<1.00 U	1.72	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	<100 U
1,2,3-Trichloropropane	0.00075	NS	0.006233456		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	<100 U
1,2,4-Trimethylbenzene	56	NS	12.32618196		<1.00 U	<1.00 U	2.56	<1.00 U	4.73	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	<100 U
1,2-Dibromo-3-chloropropane	0.00033	0.2	0.2		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<1000 U	<5.00 U	<5.00 U	<500 U
1,2-Dibromoethane	0.0075	0.05	0.05		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<1000 U	<5.00 U	<5.00 U	<500 U
1,2-Dichloroethane	0.17	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	<100 U
1,2-Dichloropropane	0.85	5	5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<1000 U	<5.00 U	<5.00 U	<500 U
1,3,5-Trimethylbenzene	60	NS	12.32618196		<1.00 U	<1.00 U	0.788 J	<1.00 U	1.61	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	<100 U
1,3-Butadiene	0.071	NS	0.006956356		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	<100 U
2,2,4-Trimethylpentane	NS	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<1000 U	<5.00 U	<5.00 U	<500 U
2-Butanone (MEK)	5600	NS	1906.086427		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<2500 U	<50.0 U	<2500 U	<50.0 U	<100 U	<10000 U	<50.0 U	<50.0 U	<5000 U
2-Chlor-1,3-Butadiene	0.019	NS	14.31372549		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<1000 U	<5.00 U	<5.00 U	<500 U
2-Methyl-1-propanol	730	NS	1825		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<2500 U	<50.0 U	<2500 U	<50.0 U	<100 U*	<10000 U	<50.0 U	<50.0 U	<5000 U
4-Methyl-2-Pentanone	6300	NS	139.047619		<50.0 U	<50.0 U	38.9 J	<50.0 U	<50.0 U	<50.0 U	<2500 U	38.3 J	<2500 U	<50.0 U	<200 U	<10000 U	<50.0 U	<50.0 U	<5000 U
Acetone	18000	NS	608.3333333		<100 U	<100 U	302	<100 U	<100 U	<100 U	<5000 U	9.65 J	<5000 U	<100 U	<200 U	<20000 U	<100 U	<100 U	<10000 U
Acetonitrile	130	NS	125.1428571		<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<5000 U	<100 U	<5000 U	<100 U	<200 U	<20000 U	<100 U	<100 U	<10000 U
Acrolein	0.042	NS	0.041607628		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<2500 U	<50.0 U	<2500 U	<50.0 U	<100 U	<10000 U	<50.0 U	<50.0 U	<5000 U
Acrylonitrile	0.052	NS	0.036724017		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<2500 U	<50.0 U	<2500 U	<50.0 U	<100 U	<10000 U	<50.0 U	<50.0 U	<5000 U
Allyl chloride	0.73	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<1000 U	<5.00 U	<5.00 U	<500 U
Benzene	0.46	5	5		<1.00 U	<1.00 U	323	<1.00 U	30.7	<1.00 U	6920	73.0	6860	<1.00 U	<2.00 U	774	<1.00 U	<1.00 U	281
Benzyl Chloride	0.089	NS	0.062053723		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<1000 U	<5.00 U	<5.00 U	<500 U
Bromodichloromethane	0.13	80	0.167866259		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	<100 U
Bromoform	3.3	80	8.477528742		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<1000 U	<5.00 U	<5.00 U	<500 U
Bromomethane	7.5	NS	8.516666667		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<1000 U	<5.00 U	<5.00 U	<500 U
Carbon Disulfide	810	NS	1042.857143		<5.00 U	<5.00 U	2.81 J	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<1000 U	<5.00 U	<5.00 U	<500 U
Carbon Tetrachloride	0.46	5	5		<5.00 U	<5.00 U	49100	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<10.0 U	77100	<5.00 U	31000
CFC-11	5200	NS	1288.235294		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	<100 U
CFC-12	200	NS	347.6190476		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	<100 U
Chlorobenzene	78	100	100		<1.00 U	<1.00 U	787	17.9	4.66	<1.00 U	234	6.23	204	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	162
Chlorodibromomethane	0.87	80	0.125584916		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<1000 U	<5.00 U	<5.00 U	<500 U
Chloroethane	8300	NS	3.637632051		<10.0 U	<10.0 U	3.43 J	<10.0 U	<10.0 U	<10.0 U	<500 U	<10.0 U	<500 U	<10.0 U	<20.0 U	<2000 U	<10.0 U	<10.0 U	<1000 U
Chloroform	0.22	80	0.154585689		<1.00 U	<1.00 U	2840	<1.00 U	<1.00 U	<1.00 U	24.4 J	<1.00 U	<50.0 U	<1.00 U	<2.00 U	<200 U	7860	<1.00 U	5810
Chloromethane	190	NS	1.434212853		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<500 U	<10.0 U	<500 U	<10.0 U	<2.00 U	<2000 U	<10.0 U	<10.0 U	<1000 U
cis-1,2-Dichloroethene	25	70	70		<1.00 U	<1.00 U	17.3	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	<100 U
cis-1,3-Dichloropropene	NS	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<1000 U	<5.00 U	<5.00 U	<500 U
Cyclohexane	13000	NS	NS		<5.00 U	4.33 J	1410	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<1000 U	<5.00 U	<5.00 U	<500 U
Dibromomethane	8.3	NS	60.83333333		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	<100 U
Dichloromethane	11	5	5		<5.00 U	<5.00 U	13.8	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<1000 U	<5.00 U	<5.00 U	<500 U
Ethyl Methacrylate	630	NS	547.5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<1000 U	<5.00 U	<5.00 U	<500 U
Ethylbenzene	1.5	700	700		<1.00 U	<1.00 U	29.0	<1.00 U	2.29	<1.00 U	<50.0 U	0.390 J	<50.0 U	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	<100 U
Hexane	1500	NS	350.1792215		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<250 U	<5.00 U	<250 U	<5.00 U	<10.0 U	<1000 U	<5.00 U	<5.00 U	<500 U
Iodomethane	NS	NS	NS		<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<1000 U	<20.0 U	<1000 U	<20.0 U	<40.0 U	<4000 U	<20.0 U	<20.0 U	<2000 U
Isopropyl alcohol	410	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<500 U	<10.0 U	<500 U	<10.0 U	<20.0 U*	<2000 U	<10.0 U	<10.0 U	<1000 U
Isopropylbenzene	450	NS	679.0697674		<1.00 U	<1.00 U	22.7	<1.00 U	2.81	2.68	54.1	<1.00 U	<50.0 U	<1.00 U	<2.00 U	<200 U	<1.00 U	<1.00 U	<100 U
m,p-Xylenes	NS	NS	NS		<10.0 U	<10.0 U	36.4	<10.0 U	4.58 J	<10.0 U	<500 U	<10.0 U	<500 U	<10.0 U	<20 U	<2000 U	<10.0 U	<10.0 U	<1000 U
Methyl methacrylate	1400	NS	1419.444444		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<500 U	<10.0 U	<500 U	<10.0 U	<20.0 U	<2000 U	<10.0 U	<10.0 U	<1000 U
Methyl N-Butyl Ketone (2-Hexanone)	38	NS	1460		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<2500 U	<50.0 U	<2500 U	<50.0 U	<100 U	<10000 U	<50.0 U	<50.0 U	<5000 U
Methylacrylonitr																			

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Table 1
Groundwater Analytical Results - Shallow Alluvial Aquifer
Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24
				Sample Date:	11/9/2023	11/9/2023	11/9/2023	11/8/2023	11/7/2023	11/7/2023	11/9/2023	11/7/2023	11/9/2023	11/7/2023
				Program:	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO	RUAO
Semivolatile Organic Compounds Method 8270D (continued)														
Naphthalene	0.12	NS	6.203966006		<2.00 U	<10.0 U	<20.0 U	<2.00 UF2	6.45 J	<20.0 U	17.4	18.4 J	16.3	<2.00 U
Nitrobenzene	0.14	NS	3.532258065		<2.00 U	<10.0 U	<20.0 U	<2.00 UF2	<20.0 U	<20.0 U	<10.0 U	<20.0 U	<10.0 U	<2.00 U
N-Nitrosodiethylamine	0.00017	NS	0.000446483		<4.00 U	<20.0 U	<40.0 U	<4.00 UF1F2	<40.0 U	<40.0 U	<20.0 U	<40.0 U	<20.0 U	<4.00 U
N-Nitrosodimethylamine	0.00011	NS	0.001313186		<2.00 U	<10.0 U	<20.0 U	<2.00 U	<20.0 U	<20.0 U	<10.0 U	<20.0 U	<10.0 U	<2.00 U
N-Nitrosodi-n-butylamine	0.0027	NS	0.001894431		<2.00 U	<10.0 U	<20.0 U	<2.00 U	<20.0 U	<20.0 U	<10.0 U	<20.0 U	<10.0 U	<2.00 U
N-Nitrosodi-n-propylamine	0.011	NS	0.009567497		<2.00 U	<10.0 U	<20.0 U	<2.00 UF2	<20.0 U	<20.0 U	<10.0 U	<20.0 U	<10.0 U	<2.00 U
N-Nitrosodiphenylamine	12	NS	13.66785246		<2.00 U	<10.0 U	<20.0 U	<2.00 U	<20.0 U	<20.0 U	<10.0 U	<20.0 U	<10.0 U	<2.00 U
N-Nitrosomorpholine	0.012	NS	NS		<4.00 U	<20.0 U	<40.0 U	<4.00 UF1F2	<40.0 U	<40.0 U	<20.0 U	<40.0 U	<20.0 U	<4.00 U
N-Nitroso-N-methylethylamine	0.00071	NS	0.003044204		<2.00 U	<10.0 U	<20.0 U	<2.00 UF2	<20.0 U	<20.0 U	<10.0 U	<20.0 U	<10.0 U	<2.00 U
N-Nitrosopiperidine	0.0082	NS	NS		<4.00 U	<20.0 U	<40.0 U	<4.00 UF2	<40.0 U	<40.0 U	<20.0 U	<40.0 U	<20.0 U	<4.00 U
N-Nitrosopyrrolidine	0.037	NS	0.031891656		<4.00 U	<20.0 U	<40.0 U	<4.00 UF2	<40.0 U	<40.0 U	<20.0 U	<40.0 U	<20.0 U	<4.00 U
o,o,o-Triethyl phosphorothioate	NS	NS	NS		33.9	414	903	0.519 J	<80.0 U	<80.0 U	<40.0 U	<80.0 U	8.68 J	<8.00 U
o,o-Diethyl o-pyrazinyl phosphorothioate	NS	NS	NS		<8.00 U	<40.0 U	<80.0 U	<8.00 U	<80.0 U	<80.0 U	<40.0 U	<80.0 U	<40.0 U	<8.00 U
o-Toluidine	4.7	NS	0.279051988		<8.00 U	<40.0 U	<80.0 U	<8.00 UF1	<80.0 U	<80.0 U	<40.0 U	<80.0 U	<40.0 U	<8.00 U
Parathion	86	NS	219		<4.00 U	<20.0 U	<40.0 U	<4.00 U	<40.0 U	<40.0 U	<20.0 U	<40.0 U	<20.0 U	<4.00 U
p-Chloroaniline	0.37	NS	146		<4.00 U	<20.0 U	<40.0 U	<4.00 U	<40.0 U	<40.0 U	<20.0 U	<40.0 U	<20.0 U	<4.00 U
Pentachlorobenzene	3.2	NS	29.2		<2.00 U	<10.0 U	<20.0 U	<2.00 UF2	<20.0 U	<20.0 U	<10.0 U	<20.0 U	<10.0 U	<2.00 U
Pentachloronitrobenzene	0.12	NS	0.25758645		<2.00 U	<10.0 U	<20.0 U	<2.00 U	<20.0 U	<20.0 U	<10.0 U	<20.0 U	<10.0 U	<2.00 U
Pentachlorophenol	0.041	1	1		<2.00 U	<10.0 U	<20.0 U	<2.00 U	<20.0 U	<20.0 U	<10.0 U	<20.0 U	<10.0 U	<2.00 U
Phenacetin	34	NS	NS		<8.00 U	<40.0 U	<80.0 U	<8.00 U	<80.0 U	<80.0 U	<40.0 U	<80.0 U	<40.0 U	<8.00 U
Phenanthrene	NS	NS	1095		<2.00 U	<10.0 U	<20.0 U	<2.00 U	<20.0 U	<20.0 U	<10.0 U	<20.0 U	2.07 J	<2.00 U
Phenol	5800	NS	21900		<4.00 U	<20.0 U	<40.0 U	3.59 JF2	16.1 J	8.10 J	52.4	29.6 J	52.2	<4.00 U
Phorate	3	NS	NS		<8.00 U	<40.0 U	<80.0 U	<8.00 U	<80.0 U	<80.0 U	<40.0 U	<80.0 U	<40.0 U	<8.00 U
p-Phenylenediamine	20	NS	6935		<10.0 U*-	<50.0 U*-	<100 U*-	<10.0 UF1*-	<100 U*-	<100 U*-	<50.0 U*-	<100 U*-	<50.0 U*-	<10.0 U*-
Propyzamide	1200	NS	NS		<4.00 U	<20.0 U	<40.0 U	<4.00 U	<40.0 U	<40.0 U	<20.0 U	<40.0 U	<20.0 U	<4.00 U
Pyrene	120	NS	182.5		<2.00 U	<10.0 U	<20.0 U	<2.00 U	<20.0 U	<20.0 U	<10.0 U	<20.0 U	<10.0 U	<2.00 U
Pyridine	20	NS	36.5		<2.00 U*-	<10.0 U*-	<20.0 U	<2.00 UF1F2*-	<20.0 U*-	<20.0 U*-	<10.0 U	<20.0 U*-	<10.0 U	<2.00 U*-
Safrole	0.096	NS	NS		<4.00 U	<20.0 U	<40.0 U	<4.00 UF1	<40.0 U	<40.0 U	<20.0 U	<40.0 U	<20.0 U	<4.00 U
Sulfotep	7.1	NS	NS		<4.00 U	<20.0 U	<40.0 U	<4.00 U	<40.0 U	<40.0 U	<20.0 U	<40.0 U	<20.0 U	<4.00 U

MW-25	MW-26D	MW-27D	MW-27S	MW-28D
11/14/2023	11/16/2023	11/15/2023	11/15/2023	11/16/2023
Area #1	Area #1	Area #1	Area #1	Area #1
<2.00 U	11.4	<2.00 U	<2.00 U	10.3
<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
<4.00 U	274	<4.00 U	<4.00 U	17.5
<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-
<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
<2.00 U*-1	<2.00 U*1	2.03 B*1	1.38 JB*1	1.46 JB*1
<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U

Notes on Page 20.

Table 1
Groundwater Analytical Results - Shallow Alluvial Aquifer
Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	Duplicate														
				Sample Date:	MW-28D	MW-28S	MW-29D	MW-29S	MW-30D	MW-30S	MW-31D	MW-31S	MW-32D	MW-32S	MW-33D	MW-33S	MW-34DR	MW-34SR	MW-129-D
				Program:	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1
Volatile Organic Compounds Method 8260B																			
1,1,1,2-Tetrachloroethane	0.57	NS	0.405735883		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1,1-Trichloroethane	8000	200	200		<500 U	<2500 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,1,2,2-Tetrachloroethane	0.076	NS	0.052745665		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1,2-trichloro-1,2,2-trifluoroethane	10000	NS	59375.78815		<1000 U	<5000 U	<5000 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
1,1,2-Trichloroethane	0.28	5	5		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1-Dichloroethane	2.8	NS	798.4375		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1-Dichloroethene	280	7	7		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2,3-Trichloropropane	0.00075	NS	0.006233456		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2,4-Trimethylbenzene	56	NS	12.32618196		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2-Dibromo-3-chloropropane	0.00033	0.2	0.2		<500 U	<2500 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,2-Dibromoethane	0.0075	0.05	0.05		<500 U	<2500 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,2-Dichloroethane	0.17	5	5		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2-Dichloropropane	0.85	5	5		<500 U	<2500 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,3,5-Trimethylbenzene	60	NS	12.32618196		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,3-Butadiene	0.071	NS	0.006956356		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
2,2,4-Trimethylpentane	NS	NS	NS		<500 U	<2500 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Butanone (MEK)	5600	NS	1906.086427		<5000 U	<25000 U	<25000 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
2-Chlor-1,3-Butadiene	0.019	NS	14.31372549		<500 U	<2500 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Methyl-1-propanol	730	NS	1825		<5000 U	<25000 U	<25000 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U*	<50.0 U*	<50.0 U*
4-Methyl-2-Pentanone	6300	NS	139.047619		<5000 U	<25000 U	<25000 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Acetone	18000	NS	608.3333333		<10000 U	<50000 U	<50000 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U
Acetonitrile	130	NS	125.1428571		<10000 U	<50000 U	<50000 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U	<100 U
Acrolein	0.042	NS	0.041607628		<5000 U	<25000 U	<25000 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Acrylonitrile	0.052	NS	0.036724017		<5000 U	<25000 U	<25000 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Allyl chloride	0.73	NS	NS		<500 U	<2500 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Benzene	0.46	5	5		298	857	232 J	<1.00 U	3.98	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Benzyl Chloride	0.089	NS	0.062053723		<500 U	<2500 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Bromodichloromethane	0.13	80	0.167866259		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Bromoform	3.3	80	8.477528742		<500 U	<2500 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Bromomethane	7.5	NS	8.516666667		<500 U	<2500 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Carbon Disulfide	810	NS	1042.857143		<500 U	<2500 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Carbon Tetrachloride	0.46	5	5		32100	64400	65400	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
CFC-11	5200	NS	1288.235294		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
CFC-12	200	NS	347.6190476		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Chlorobenzene	78	100	100		170	<500 U	<500 U	<1.00 U	3.94	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Chlorodibromomethane	0.87	80	0.125584916		<500 U	<2500 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U								

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Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	Duplicate														
				Sample Date:	MW-28D	MW-28S	MW-29D	MW-29S	MW-30D	MW-30S	MW-31D	MW-31S	MW-32D	MW-32S	MW-33D	MW-33S	MW-34DR	MW-34SR	MW-129-D
				Program:	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1
Volatile Organic Compounds Method 8260B (continued)																			
n-Propylbenzene	660	NS	243.3333333		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
o-Xylene	190	NS	12166.66667		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Propionitrile	NS	NS	NS		<1000 U	<5000 U	<5000 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Styrene (Monomer)	1200	100	100		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Tetrachloroethene	11	5	5		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Tetrahydrofuran	3400	NS	NS		<1000 U	<5000 U	<5000 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Toluene	1100	1000	1000		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Total Xylenes	190	10000	10000		<1000 U	<5000 U	<5000 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
trans-1,2-Dichloroethene	68	100	100		<100 U	<500 U	<500 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
trans-1,3-Dichloropropene	NS	NS	NS		<500 U	<2500 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
trans-1,4-Dichloro-2-butene	0.0013	NS	NS		<1000 U	<5000 U	<5000 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Trichloroethene	0.49	5	5		<500 U	<2500 U	<2500 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Vinyl acetate	410	NS	412.1235491		<2000 U	<10000 U	<10000 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U
Vinyl chloride	0.019	2	2		<200 U	<1000 U	<1000 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Semivolatile Organic Compounds Method 8270D																			
1,1-Biphenyl	0.83	NS	304.1666667		893	725	306	0.564 J	18.4	0.440 J	<2.00 U	<2.00 U	<2.00 U	<2.00 U	1080	0.938 J	<2.00 U	1.26 J	<2.00 U
1,2,4,5-Tetrachlorobenzene	0.17	NS	10.95		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,2,4-Trichlorobenzene	1.2	70	70		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,2-Dichlorobenzene	300	600	600		1.46 J	1.49 J	0.870 J	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,3,5-Trinitrobenzene	590	NS	1095		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,3-Dichlorobenzene	NS	NS	5.475		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,3-Dinitrobenzene	2	NS	3.65		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,4-Dichlorobenzene	0.48	75	75		2.22	2.18	1.32 J	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,4-Dioxane	0.46	NS	6.088407006		3.10	2.69	<0.660 U	<0.667 U	<0.639 U	<0.581 U	<0.557 U	<0.588 U	<0.580 U	<0.587 U	<0.649 U	<0.570 U	<0.662 U	<0.565 U	<0.673 U
1,4-Naphthoquinone	NS	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 UF1	<8.00 U	<8.00 U	<8.00 U
1-Naphthylamine	NS	NS	NS		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,2-Oxybis(1-Chloropropane)	710	NS	0.2603888		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,3,4,6-Tetrachlorophenol	240	NS	1095		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,4,5-Trichlorophenol	1200	NS	3650		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,4,6-Trichlorophenol	4.1	NS	6.088407006		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,4-Dichlorophenol	46	NS	109.5		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,4-Dimethylphenol	360	NS	730		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,4-Dinitrophenol	39	NS	73		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
2,4-Dinitrotoluene	0.24	NS	73		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,6-Dichlorophenol	NS	NS	NS		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,6-Dinitrotoluene	0.049	NS	36.5		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2-Acetylaminofluorene	0.016	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
2-Chloronaphthalene	750	NS	486.6666667		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U</							

Table 1
Groundwater Analytical Results - Shallow Alluvial Aquifer
Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	Duplicate MW-28D	MW-28S	MW-29D	MW-29S	MW-30D	MW-30S	MW-31D	MW-31S	MW-32D	MW-32S	MW-33D	MW-33S	MW-34DR	MW-34SR	MW-129-D		
				Sample Date:	11/16/2023	11/16/2023	11/16/2023	11/16/2023	11/15/2023	11/15/2023	11/15/2023	11/15/2023	11/15/2023	11/15/2023	11/15/2023	11/15/2023	11/15/2023	11/15/2023	11/14/2023	11/14/2023	11/14/2023
				Program:	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	
Semivolatile Organic Compounds Method 8270D (continued)																					
4-Dimethylaminoazobenzene	0.005	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U		
4-Nitroaniline	3.8	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U		
4-Nitroquinoline-N-Oxide	NS	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 UF1	<4.00 U	<4.00 U	<4.00 U		
5-Nitro-o-Toluidine	8.2	NS	2.029469002		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U		
7,12-Dimethylbenz(a)anthracene	0.0001	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U		
Acenaphthene	530	NS	365		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	0.845 J	<2.00 U	<2.00 U	<2.00 U		
Acenaphthylene	NS	NS	2190		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Acetophenone ⁽¹⁾	1900	NS	NS		1.78 J	1.50 J	0.301 J	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U		
Aniline	13	NS	11.74955738		<4.00 U*1	<4.00 U*1	<4.00 U*1	<4.00 U*1	<4.00 U*1	<4.00 U*1	<4.00 U*1	<4.00 U*1	<4.00 U*1	<4.00 U*1	<4.00 U*1	<4.00 U*1	<4.00 U*-	<4.00 U*-	<4.00 U*-		
Anthracene	1800	NS	43.4		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Aramite	1.3	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U		
Aramite Peak 1	NS	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U		
Aramite Peak 2	NS	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U		
Benz(a)anthracene	0.03	NS	0.091743119		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Benzo(a)pyrene	0.025	0.2	0.2		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Benzo(b)fluoranthene	0.25	NS	0.091743119		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Benzo(g,h,i)perylene	NS	NS	1095		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Benzo(k)fluoranthene	2.5	NS	0.917431193		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Benzyl Alcohol	2000	NS	10950		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U		
bis(2-Chloroethoxy)methane	59	NS	NS		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
bis(2-Chloroethyl)ether	0.014	NS	0.009202473		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
bis(2-Ethylhexyl)phthalate	5.6	6	6		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Butyl benzyl phthalate	16	NS	2690		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Chrysene	25	NS	9.174311927		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Diallate	0.54	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U		
Diallate Peak 1	NS	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U		
Diallate Peak 2	NS	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 UF1	<8.00 U	<8.00 U	<8.00 U		
Dibenz(a,h)anthracene	0.025	NS	0.009174312		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Dibenzofuran	7.9	NS	24.33333333		1.30 J	1.20 J	0.440 J	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	3.29	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Diethyl phthalate	15000	NS	29200		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Dimethoate	44	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U		
Dimethyl phthalate	NS	NS	365000		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Dimethylphenethylamine	NS	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 UF1	<4.00 U	<4.00 U	<4.00 U		
Di-n-butyl phthalate	900	NS	3650		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	0.803 J	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Di-n-octyl phthalate	200	NS	20		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Dinoseb	15	7	7		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U		
Diphenyl ether	0.83	NS	NS		3950	2700	914	1.75 J	58.6	1.50 J	<8.00 U	0.461 J	<8.00 U	<8.00 U	5860	320	<8.00 U	3.64 J	<8.00 U		
Disulfoton	0.5	NS	1.46		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U		
Ethyl Methanesulfonate	NS	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 UF1	<4.00 U	<4.00 U	<4.00 U		
Famphur	NS	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U		
Fluoranthene	800	NS	1460		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Fluorene	290	NS	243.3333333		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	0.262 J	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Hexachloro-1,3-butadiene	0.14	NS	0.858621501		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Hexachlorobenzene	0.0098	1	1		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Hexachlorocyclopentadiene	0.41	50	50		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Hexachloroethane	0.33	NS	4.783748362		<2.00 U	2.70	0.697 J	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Hexachloropropene	NS	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U		
Indeno(1,2,3-cd)pyrene	0.25	NS	0.091743119		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Isophorone	78	NS	70.49734428		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U		
Isosafrole	NS	NS	NS		<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U		
Isosafrole Peak 1	NS	NS	NS		<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 UF1	<6.00 U	<6.00 U	<6.00 U		
Isosafrole Peak 2	NS	NS	NS		<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 UF1	<6.00 U	<6.00 U	<6.00 U		
Methapyrilene	NS	NS	NS		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.0										

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Table 1
Groundwater Analytical Results - Shallow Alluvial Aquifer
Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	Duplicate														
				Sample Date:	MW-28D	MW-28S	MW-29D	MW-29S	MW-30D	MW-30S	MW-31D	MW-31S	MW-32D	MW-32S	MW-33D	MW-33S	MW-34DR	MW-34SR	MW-129-D
				Program:	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1	Area #1
Semivolatile Organic Compounds Method 8270D (continued)																			
Naphthalene	0.12	NS	6.203966006		8.55	5.32	2.42	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	1.29 J	0.868 J	<2.00 U	<2.00 U	<2.00 U
Nitrobenzene	0.14	NS	3.532258065		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosodiethylamine	0.00017	NS	0.000446483		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 UF1	<4.00 U	<4.00 U	<4.00 U	<4.00 U
N-Nitrosodimethylamine	0.00011	NS	0.001313186		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosodi-n-butylamine	0.0027	NS	0.001894431		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosodi-n-propylamine	0.011	NS	0.009567497		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosodiphenylamine	12	NS	13.66785246		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosomorpholine	0.012	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 UF1	<4.00 U	<4.00 U	<4.00 U	<4.00 U
N-Nitroso-N-methylethylamine	0.00071	NS	0.003044204		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosopiperidine	0.0082	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
N-Nitrosopyrrolidine	0.037	NS	0.031891656		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
o,o,o-Triethyl phosphorothioate	NS	NS	NS		0.786 J	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
o,o-Diethyl o-pyrazinyl phosphorothioate	NS	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
o-Toluidine	4.7	NS	0.279051988		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 UF1	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Parathion	86	NS	219		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
p-Chloroaniline	0.37	NS	146		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Pentachlorobenzene	3.2	NS	29.2		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Pentachloronitrobenzene	0.12	NS	0.25758645		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Pentachlorophenol	0.041	1	1		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Phenacetin	34	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Phenanthrene	NS	NS	1095		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Phenol	5800	NS	21900		14.3	45.9	1.74 J	<4.00 U	0.351 J	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	8.20	0.653 J	<4.00 U	<4.00 U	<4.00 U
Phorate	3	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
p-Phenylenediamine	20	NS	6935		<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-F1	<10.0 U*-	<10.0 U*-	<10.0 U*-
Propyzamide	1200	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Pyrene	120	NS	182.5		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Pyridine	20	NS	36.5		1.42 JB*1	1.53 JB*1	1.44 JB*1	1.37 JB*1	1.41 JB*1	1.31 JB*1	1.07 JB*1	1.63 JB*1	1.49 JB*1	1.01 JB*1	1.26 JB*1	1.45 JB*1	<2.00 U*-*1	<2.00 U*1*-	<2.00 U*-*1
Safrole	0.096	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 UF1	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Sulfotep	7.1	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U

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Table 1
Groundwater Analytical Results - Shallow Alluvial Aquifer
Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-64	Duplicate MW-64	MW-65	MW-66	MW-67	MW-68	MW-69	MW-70	MW-71	MW-72	MW-43	MW-47	MW-50	Duplicate MW-50		
				Sample Date:	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/14/2023	11/14/2023
				Program:	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #3	Area #3	Poly Pale	Poly Pale
Volatile Organic Compounds Method 8260B																				
1,1,1,2-Tetrachloroethane	0.57	NS	0.405735883		<50.0 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<5.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U		
1,1,1-Trichloroethane	8000	200	200		<250 U	<250 U	<5.00 U	<250 U	<5.00 U	<25.0 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<10.0 U	<50.0 U	<50.0 U		
1,1,2,2-Tetrachloroethane	0.076	NS	0.052745665		<50.0 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<5.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U		
1,1,2-trichloro-1,2,2-trifluoroethane	10000	NS	59375.78815		<500 U	<500 U	<10.0 U	<500 U	<10.0 U	<50.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<20.0 U	<20.0 U	<100 U	<100 U		
1,1,2-Trichloroethane	0.28	5	5		<50.0 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<5.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U		
1,1-Dichloroethane	2.8	NS	798.4375		<50.0 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<5.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U		
1,1-Dichloroethene	280	7	7		<50.0 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<5.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U		
1,2,3-Trichloropropane	0.00075	NS	0.006233456		<50.0 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<5.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U		
1,2,4-Trimethylbenzene	56	NS	12.32618196		<50.0 U	<50.0 U	<1.00 U	154	0.440 J	45.4	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U		
1,2-Dibromo-3-chloropropane	0.00033	0.2	0.2		<250 U	<250 U	<5.00 U	<250 U	<5.00 U	<25.0 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<10.0 U	<50.0 U	<50.0 U		
1,2-Dibromoethane	0.0075	0.05	0.05		<250 U	<250 U	<5.00 U	<250 U	<5.00 U	<25.0 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<10.0 U	<50.0 U	<50.0 U		
1,2-Dichloroethane	0.17	5	5		<50.0 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<5.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U		
1,2-Dichloropropane	0.85	5	5		<250 U	<250 U	<5.00 U	<250 U	<5.00 U	<25.0 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<10.0 U	<50.0 U	<50.0 U		
1,3,5-Trimethylbenzene	60	NS	12.32618196		<50.0 U	<50.0 U	<1.00 U	50.9	<1.00 U	13.1	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U		
1,3-Butadiene	0.071	NS	0.006956356		<50.0 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<5.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U		
2,2,4-Trimethylpentane	NS	NS	NS		<250 U	<250 U	<5.00 U	<250 U	<5.00 U	<25.0 U	<5.00 U	<5.00 U	6.53	<5.00 U	<10.0 U	<10.0 U	<50.0 U	<50.0 U		
2-Butanone (MEK)	5600	NS	1906.086427		<2500 U	<2500 U	<50.0 U	<2500 U	<50.0 U	<250 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<100 U	<100 U	<500 U	<500 U		
2-Chlor-1,3-Butadiene	0.019	NS	14.31372549		<250 U	<250 U	<5.00 U	<250 U	<5.00 U	<25.0 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<10.0 U	<50.0 U	<50.0 U		
2-Methyl-1-propanol	730	NS	1825		<2500 U*+	<2500 U*+	<50.0 U	<2500 U*+	<50.0 U*+	<250 U	<50.0 U*+	<50.0 U	<50.0 U*+	<50.0 U*+	<100 U	<100 U*+	<500 U	<500 U		
4-Methyl-2-Pentanone	6300	NS	139.047619		<2500 U	<2500 U	<50.0 U	<2500 U	<50.0 U	<250 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<100 U	<100 U	<500 U	<500 U		
Acetone	18000	NS	608.3333333		<5000 U	<5000 U	<100 U	<5000 U	<100 U	<500 U	<100 U	<100 U	<100 U	<100 U	<200 U	<200 U	133 J	125 J		
Acetonitrile	130	NS	125.1428571		<5000 U	<5000 U	<100 U	<5000 U	<100 U	<500 U	<100 U	<100 U	<100 U	<100 U	<200 U	<200 U	<1000 U	<1000 U		
Acrolein	0.042	NS	0.041607628		<2500 U	<2500 U	<50.0 U	<2500 U	<50.0 U	<250 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<100 U	<100 U	<500 U	<500 U		
Acrylonitrile	0.052	NS	0.036724017		<2500 U	<2500 U	<50.0 U	<2500 U	<50.0 U	<250 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<100 U	<100 U	<500 U	<500 U		
Allyl chloride	0.73	NS	NS		<250 U	<250 U	<5.00 U	<250 U	<5.00 U	<25.0 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<10.0 U	<50.0 U	<50.0 U		
Benzene	0.46	5	5		1660	1650	<1.00 U	2080	24.6	551	<1.00 U	<1.00 U	<1.00 U	<1.00 U	1.94 J	<2.00 U	1200	1140		
Benzyl Chloride	0.089	NS	0.062053723		<250 U	<250 U	<5.00 U	<250 U	<5.00 U	<25.0 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<10.0 U	<50.0 U	<50.0 U		
Bromodichloromethane	0.13	80	0.167866259		<50.0 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<5.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U		
Bromoform	3.3	80	8.477528742		<250 U	<250 U	<5.00 U	<250 U	<5.00 U	<25.0 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<10.0 U	<50.0 U	<50.0 U		
Bromomethane	7.5	NS	8.516666667		<250 U	<250 U	<5.00 U	<250 U	<5.00 U	<25.0 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<10.0 U	<50.0 U	<50.0 U		
Carbon Disulfide	810	NS	1042.857143		<250 U	<250 U	<5.00 U	<250 U	<5.00 U	<25.0 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<10.0 U	<50.0 U	<50.0 U		
Carbon Tetrachloride	0.46	5	5		<250 U	<250 U	<5.00 U	<250 U	<5.00 U	<25.0 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<10.0 U	<50.0 U	<50.0 U		
CFC-11	5200	NS	1288.235294		<50.0 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<5.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U		
CFC-12	200	NS	347.6190476		<50.0 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<5.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U		
Chlorobenzene	78	100	100		<50.0 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<5.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U		
Chlorodibromomethane	0.87	80	0.125584916		<250 U	<250 U	<5.00 U	<250 U	<5.00 U	<25.0 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<10.0 U	<50.0 U	<50.0 U		
Chloroethane	8300	NS	3.637632051		<500 U	<500 U	<10.0 U	<500 U	<10.0 U	<50.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<20.0 U	<20.0 U	<100 U	<100 U		
Chloroform	0.22	80	0.154585689		<50.0 U	<50.0 U	<1.00 U	<50.0 U												

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Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-64	Duplicate MW-64	MW-65	MW-66	MW-67	MW-68	MW-69	MW-70	MW-71	MW-72	MW-43	MW-47	MW-50	Duplicate MW-50				
				Sample Date:	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/14/2023	11/14/2023	
				Program:	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #3	Area #3	Poly Pale	Poly Pale		
Volatile Organic Compounds Method 8260B (continued)																						
n-Propylbenzene	660	NS	243.3333333		70.5	82.5	<1.00 U	27.9 J	3.04	23.6	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U				
o-Xylene	190	NS	12166.66667		<50.0 U	<50.0 U	<1.00 U	26.5 J	<1.00 U	6.61	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U				
Propionitrile	NS	NS	NS		<500 U	<500 U	<10.0 U	<500 U	<10.0 U	<50.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<20.0 U	<20.0 U	<100 U	<100 U				
Styrene (Monomer)	1200	100	100		<50.0 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<5.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U				
Tetrachloroethene	11	5	5		<50.0 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<5.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U				
Tetrahydrofuran	3400	NS	NS		<500 U	<500 U	<10.0 U	<500 U	<10.0 U	<50.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<20.0 U	<20.0 U	1140	1080				
Toluene	1100	1000	1000		42.7 J	42.2 J	<1.00 U	57.7	0.512 J	15.9	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	92.5	89.4				
Total Xylenes	190	10000	10000		85.5 J	84.5 J	<10.0 U	427 J	2.61 J	189	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<20.0 U	<20.0 U	<100 U	<100 U				
trans-1,2-Dichloroethene	68	100	100		<50.0 U	<50.0 U	<1.00 U	<50.0 U	<1.00 U	<5.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<2.00 U	<2.00 U	<10.0 U	<10.0 U				
trans-1,3-Dichloropropene	NS	NS	NS		<250 U	<250 U	<5.00 U	<250 U	<5.00 U	<25.0 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<10.0 U	<50.0 U	<50.0 U				
trans-1,4-Dichloro-2-butene	0.0013	NS	NS		<500 U	<500 U	<10.0 U	<500 U	<10.0 U	<50.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<20.0 U	<20.0 U	<100 U	<100 U				
Trichloroethene	0.49	5	5		<250 U	<250 U	<5.00 U	<250 U	<5.00 U	<25.0 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<10.0 U	<10.0 U	<50.0 U	<50.0 U				
Vinyl acetate	410	NS	412.1235491		<1000 U	<1000 U	<20.0 U	<1000 U	<20.0 U	<100 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<40.0 U	<40.0 U	<200 U	<200 U				
Vinyl chloride	0.019	2	2		<100 U	<100 U	<2.00 U	<100 U	<2.00 U	<10.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<4.00 U	<4.00 U	<20.0 U	<20.0 U				
Semivolatile Organic Compounds Method 8270D																						
1,1-Biphenyl	0.83	NS	304.1666667		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	2300	1890				
1,2,4,5-Tetrachlorobenzene	0.17	NS	10.95		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
1,2,4-Trichlorobenzene	1.2	70	70		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
1,2-Dichlorobenzene	300	600	600		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
1,3,5-Trinitrobenzene	590	NS	1095		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
1,3-Dichlorobenzene	NS	NS	5.475		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
1,3-Dinitrobenzene	2	NS	3.65		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
1,4-Dichlorobenzene	0.48	75	75		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
1,4-Dioxane	0.46	NS	6.088407006		<0.673 U	<0.664 U	<0.660 U	<0.667 U	<0.667 U	<0.654 U	<0.662 U	<0.656 U	<0.662 U	<0.667 U	6.27	12.0	2.88	2.71				
1,4-Naphthoquinone	NS	NS	NS		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U				
1-Naphthylamine	NS	NS	NS		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
2,2-Oxybis(1-Chloropropane)	710	NS	0.2603888		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
2,3,4,6-Tetrachlorophenol	240	NS	1095		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
2,4,5-Trichlorophenol	1200	NS	3650		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
2,4,6-Trichlorophenol	4.1	NS	6.088407006		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
2,4-Dichlorophenol	46	NS	109.5		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
2,4-Dimethylphenol	360	NS	730		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
2,4-Dinitrophenol	39	NS	73		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U				
2,4-Dinitrotoluene	0.24	NS	73		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
2,6-Dichlorophenol	NS	NS	NS		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
2,6-Dinitrotoluene	0.049	NS	36.5		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
2-Acetylaminofluorene	0.016	NS	NS		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U				
2-Chloronaphthalene	750	NS	486.6666667		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U				
2-Chlorophenol	91	NS	30.41666667		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U				
2-Methyl-4,6-dinitrophenol	1.5	NS	3.65		<160 U	<8.00 U	<8.00 U	<8.00 U														

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Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-64	Duplicate MW-64	MW-65	MW-66	MW-67	MW-68	MW-69	MW-70	MW-71	MW-72	MW-43	MW-47	MW-50	Duplicate MW-50
				Sample Date:	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/14/2023	11/14/2023
				Program:	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #3	Area #3	Poly Pale	Poly Pale
Semivolatile Organic Compounds Method 8270D (continued)																		
4-Dimethylaminoazobenzene	0.005	NS	NS		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U
4-Nitroaniline	3.8	NS	NS		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U
4-Nitroquinoline-N-Oxide	NS	NS	NS		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U
5-Nitro-o-Toluidine	8.2	NS	2.029469002		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U
7,12-Dimethylbenz(a)anthracene	0.0001	NS	NS		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U
Acenaphthene	530	NS	365		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Acenaphthylene	NS	NS	2190		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Acetophenone ⁽¹⁾	1900	NS	NS		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U
Aniline	13	NS	11.74955738		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U*-	<40.0 U*-
Anthracene	1800	NS	43.4		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Aramite	1.3	NS	NS		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U
Aramite Peak 1	NS	NS	NS		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U
Aramite Peak 2	NS	NS	NS		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U
Benz(a)anthracene	0.03	NS	0.091743119		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Benzo(a)pyrene	0.025	0.2	0.2		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Benzo(b)fluoranthene	0.25	NS	0.091743119		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Benzo(g,h,i)perylene	NS	NS	1095		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Benzo(k)fluoranthene	2.5	NS	0.917431193		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Benzyl Alcohol	2000	NS	10950		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U
bis(2-Chloroethoxy)methane	59	NS	NS		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
bis(2-Chloroethyl)ether	0.014	NS	0.009202473		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
bis(2-Ethylhexyl)phthalate	5.6	6	6		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Butyl benzyl phthalate	16	NS	2690		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Chrysene	25	NS	9.174311927		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Diallate	0.54	NS	NS		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U
Diallate Peak 1	NS	NS	NS		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U
Diallate Peak 2	NS	NS	NS		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U
Dibenz(a,h)anthracene	0.025	NS	0.009174312		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Dibenzofuran	7.9	NS	24.33333333		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Diethyl phthalate	15000	NS	29200		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Dimethoate	44	NS	NS		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U
Dimethyl phthalate	NS	NS	365000		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Dimethylphenethylamine	NS	NS	NS		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U
Di-n-butyl phthalate	900	NS	3650		30.8 J	24.9	<2.00 U	26.4	11.7	<40.0 U	33.5	19.0 J	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U	
Di-n-octyl phthalate	200	NS	20		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Dinoseb	15	7	7		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U
Diphenyl ether	0.83	NS	NS		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	7420	6490
Disulfoton	0.5	NS	1.46		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U
Ethyl Methanesulfonate	NS	NS	NS		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U
Famphur	NS	NS	NS		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U
Fluoranthene	800	NS	1460		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Fluorene	290	NS	243.3333333		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Hexachloro-1,3-butadiene	0.14	NS	0.858621501		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Hexachlorobenzene	0.0098	1	1		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Hexachlorocyclopentadiene	0.41	50	50		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Hexachloroethane	0.33	NS	4.783748362		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Hexachloropropene	NS	NS	NS		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U
Indeno(1,2,3-cd)pyrene	0.25	NS	0.091743119		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Isophorone	78	NS	70.49734428		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Isosafrole	NS	NS	NS		<120 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<120 U	<6.00 U	<120 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<30.0 U	<60.0 U
Isosafrole Peak 1	NS	NS	NS		<120 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<120 U	<6.00 U	<120 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<30.0 U	<60.0 U
Isosafrole Peak 2	NS	NS	NS		<120 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<120 U	<6.00 U	<120 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<30.0 U	<60.0 U
Methapyrilene	NS	NS	NS		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Methyl methanesulfonate	0.79	NS	NS		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U
Methyl parathion	4.5	NS	9.125		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.

Table 1
Groundwater Analytical Results - Shallow Alluvial Aquifer
Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-64	Duplicate MW-64	MW-65	MW-66	MW-67	MW-68	MW-69	MW-70	MW-71	MW-72	MW-43	MW-47	MW-50	Duplicate MW-50	
				Sample Date:	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/13/2023	11/14/2023	11/14/2023
				Program:	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #2	Area #3	Area #3	Poly Pale	Poly Pale
Semivolatile Organic Compounds Method 8270D (continued)																			
Naphthalene	0.12	NS	6.203966006		191	210	<2.00 U	99.4	8.66	108	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	13.0	9.79 J	
Nitrobenzene	0.14	NS	3.532258065		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U	
N-Nitrosodiethylamine	0.00017	NS	0.000446483		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U	
N-Nitrosodimethylamine	0.00011	NS	0.001313186		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U	
N-Nitrosodi-n-butylamine	0.0027	NS	0.001894431		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U	
N-Nitrosodi-n-propylamine	0.011	NS	0.009567497		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U	
N-Nitrosodiphenylamine	12	NS	13.66785246		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U	
N-Nitrosomorpholine	0.012	NS	NS		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U	
N-Nitroso-N-methylethylamine	0.00071	NS	0.003044204		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U	
N-Nitrosopiperidine	0.0082	NS	NS		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U	
N-Nitrosopyrrolidine	0.037	NS	0.031891656		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U	
o,o,o-Triethyl phosphorothioate	NS	NS	NS		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U	
o,o-Diethyl o-pyrazinyl phosphorothioate	NS	NS	NS		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U	
o-Toluidine	4.7	NS	0.279051988		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U	
Parathion	86	NS	219		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U	
p-Chloroaniline	0.37	NS	146		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U	
Pentachlorobenzene	3.2	NS	29.2		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U	
Pentachloronitrobenzene	0.12	NS	0.25758645		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U	
Pentachlorophenol	0.041	1	1		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U	
Phenacetin	34	NS	NS		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U	
Phenanthrene	NS	NS	1095		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U	
Phenol	5800	NS	21900		<80.0 U	<4.00 U	1.10 J	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	0.995 J	<4.00 U	<4.00 U	<4.00 U	3.04 J	<40.0 U	
Phorate	3	NS	NS		<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<160 U	<8.00 U	<160 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<40.0 U	<80.0 U	
p-Phenylenediamine	20	NS	6935		<200 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<200 U*-	<10.0 U*-	<200 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<50.0 U*-	<100 U*-	
Propyzamide	1200	NS	NS		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U	
Pyrene	120	NS	182.5		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U	<20.0 U	
Pyridine	20	NS	36.5		<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<40.0 U	<2.00 U	<40.0 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<10.0 U*-*1	<20.0 U*-*1	
Safrole	0.096	NS	NS		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U	
Sulfotep	7.1	NS	NS		<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<80.0 U	<4.00 U	<80.0 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<20.0 U	<40.0 U	

Notes on Page 20.

Table 1
Groundwater Analytical Results - Shallow Alluvial Aquifer
Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-52D	MW-52S	MW-54	MW-73	MW-75
				Sample Date:	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023
				Program:	Poly Pale	Poly Pale	Poly Pale	Poly Pale	Poly Pale
Volatile Organic Compounds Method 8260B									
1,1,1,2-Tetrachloroethane	0.57	NS	0.405735883		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U
1,1,1-Trichloroethane	8000	200	200		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U
1,1,2,2-Tetrachloroethane	0.076	NS	0.052745665		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U
1,1,2-trichloro-1,2,2-trifluoroethane	10000	NS	59375.78815		<10.0 U	<10.0 U	<10.0 U	<5000 U	<10.0 U
1,1,2-Trichloroethane	0.28	5	5		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U
1,1-Dichloroethane	2.8	NS	798.4375		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U
1,1-Dichloroethene	280	7	7		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U
1,2,3-Trichloropropane	0.00075	NS	0.006233456		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U
1,2,4-Trimethylbenzene	56	NS	12.32618196		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U
1,2-Dibromo-3-chloropropane	0.00033	0.2	0.2		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U
1,2-Dibromoethane	0.0075	0.05	0.05		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U
1,2-Dichloroethane	0.17	5	5		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U
1,2-Dichloropropane	0.85	5	5		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U
1,3,5-Trimethylbenzene	60	NS	12.32618196		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U
1,3-Butadiene	0.071	NS	0.006956356		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U
2,2,4-Trimethylpentane	NS	NS	NS		0.642 J	0.722 J	<5.00 U	<2500 U	<5.00 U
2-Butanone (MEK)	5600	NS	1906.086427		<50.0 U	<50.0 U	<50.0 U	<25000 U	<50.0 U
2-Chlor-1,3-Butadiene	0.019	NS	14.31372549		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U
2-Methyl-1-propanol	730	NS	1825		<50.0 U	<50.0 U	<50.0 U	<25000 U	<50.0 U
4-Methyl-2-Pentanone	6300	NS	139.047619		<50.0 U	<50.0 U	<50.0 U	<25000 U	<50.0 U
Acetone	18000	NS	608.3333333		<100 U	<100 U	<100 U	<50000 U	<100 U
Acetonitrile	130	NS	125.1428571		<100 U	<100 U	<100 U	<50000 U	<100 U
Acrolein	0.042	NS	0.041607628		<50.0 U	<50.0 U	<50.0 U	<25000 U	<50.0 U
Acrylonitrile	0.052	NS	0.036724017		<50.0 U	<50.0 U	<50.0 U	<25000 U	<50.0 U
Allyl chloride	0.73	NS	NS		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U
Benzene	0.46	5	5		0.475 J	22.2	<1.00 U	40700	<1.00 U
Benzyl Chloride	0.089	NS	0.062053723		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U
Bromodichloromethane	0.13	80	0.167866259		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U
Bromoform	3.3	80	8.477528742		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U
Bromomethane	7.5	NS	8.516666667		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U
Carbon Disulfide	810	NS	1042.857143		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U
Carbon Tetrachloride	0.46	5	5		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U
CFC-11	5200	NS	1288.235294		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U
CFC-12	200	NS	347.6190476		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U
Chlorobenzene	78	100	100		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U
Chlorodibromomethane	0.87	80	0.125584916		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U
Chloroethane	8300	NS	3.637632051		<10.0 U	<10.0 U	<10.0 U	<5000 U	<10.0 U
Chloroform	0.22	80	0.154585689		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U
Chloromethane	190	NS	1.434212853		<10.0 U	<10.0 U	<10.0 U	<5000 U	<10.0 U
cis-1,2-Dichloroethene	25	70	70		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U
cis-1,3-Dichloropropene	NS	NS	NS		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U
Cyclohexane	13000	NS	NS		3.31 J	3.60 J	<5.00 U	<2500 U	<5.00 U
Dibromomethane	8.3	NS	60.83333333		<1.00 U	<1.00 U	<1.00 U	<500 U	<1.00 U
Dichloromethane	11	5	5		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U
Ethyl Methacrylate	630	NS	547.5		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U
Ethylbenzene	1.5	700	700		<1.00 U	0.540 J	<1.00 U	<500 U	<1.00 U
Hexane	1500	NS	350.1792215		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U
Iodomethane	NS	NS	NS		<20.0 U	<20.0 U	<20.0 U	<10000 U	<20.0 U
Isopropyl alcohol	410	NS	NS		<10.0 U	<10.0 U	<10.0 U	<5000 U	<10.0 U
Isopropylbenzene	450	NS	679.0697674		6.16	6.30	<1.00 U	<500 U	<1.00 U
m,p-Xylenes	NS	NS	NS		<10.0 U	<10.0 U	<10.0 U	<5000 U	<10.0 U
Methyl methacrylate	1400	NS	1419.444444		<10.0 U	<10.0 U	<10.0 U	<5000 U	<10.0 U
Methyl N-Butyl Ketone (2-Hexanone)	38	NS	1460		<50.0 U	<50.0 U	<50.0 U	<25000 U	<50.0 U
Methylacrylonitrile	1.9	NS	1.042857143		<10.0 U	<10.0 U	<10.0 U	<5000 U	<10.0 U
Methyl-tert-butyl ether	14	NS	40		<5.00 U	<5.00 U	<5.00 U	<2500 U	<5.00 U

MW-39	MW-79	MW-85	MW-86	MW-87
11/7/2023	11/7/2023	11/7/2023	11/7/2023	11/7/2023
Northeast Delineation	Northeast Delineation	Northeast Delineation	Northeast Delineation	Northeast Delineation
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<100 U	<100 U	<100 U	<100 U	<100 U
<100 U	<100 U	<100 U	<100 U	<100 U
<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U
<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
<1.12	<1.00 U	<1.00 U	<1.00 U	<1.00 U
<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
<5.00 U	<5.00 U	<5.00 U	<1.98 J	<5.00 U

Table 1
Groundwater Analytical Results - Shallow Alluvial Aquifer
Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	MW-52D	MW-52S	MW-54	MW-73	MW-75
				Sample Date:	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023
				Program:	Poly Pale	Poly Pale	Poly Pale	Poly Pale	Poly Pale
Semivolatile Organic Compounds Method 8270D (continued)									
Naphthalene	0.12	NS	6.203966006		<2.00 U	<2.00 U	<2.00 U	7.82 J	<2.00 U
Nitrobenzene	0.14	NS	3.532258065		<2.00 U	<2.00 U	<2.00 U	<20.0 U	<2.00 U
N-Nitrosodiethylamine	0.00017	NS	0.000446483		<4.00 U	<4.00 U	<4.00 U	<40.0 U	<4.00 U
N-Nitrosodimethylamine	0.00011	NS	0.001313186		<2.00 U	<2.00 U	<2.00 U	<20.0 U	<2.00 U
N-Nitrosodi-n-butylamine	0.0027	NS	0.001894431		<2.00 U	<2.00 U	<2.00 U	<20.0 U	<2.00 U
N-Nitrosodi-n-propylamine	0.011	NS	0.009567497		<2.00 U	<2.00 U	<2.00 U	<20.0 U	<2.00 U
N-Nitrosodiphenylamine	12	NS	13.66785246		<2.00 U	<2.00 U	<2.00 U	<20.0 U	<2.00 U
N-Nitrosomorpholine	0.012	NS	NS		<4.00 U	<4.00 U	<4.00 U	<40.0 U	<4.00 U
N-Nitroso-N-methylethylamine	0.00071	NS	0.003044204		<2.00 U	<2.00 U	<2.00 U	<20.0 U	<2.00 U
N-Nitrosopiperidine	0.0082	NS	NS		<4.00 U	<4.00 U	<4.00 U	<40.0 U	<4.00 U
N-Nitrosopyrrolidine	0.037	NS	0.031891656		<4.00 U	<4.00 U	<4.00 U	<40.0 U	<4.00 U
o,o,o-Triethyl phosphorothioate	NS	NS	NS		<8.00 U	<8.00 U	<8.00 U	<80.0 U	<8.00 U
o,o-Diethyl o-pyrazinyl phosphorothioate	NS	NS	NS		<8.00 U	<8.00 U	<8.00 U	<80.0 U	<8.00 U
o-Toluidine	4.7	NS	0.279051988		<8.00 U	<8.00 U	<8.00 U	<80.0 U	<8.00 U
Parathion	86	NS	219		<4.00 U	<4.00 U	<4.00 U	<40.0 U	<4.00 U
p-Chloroaniline	0.37	NS	146		<4.00 U	<4.00 U	<4.00 U	<40.0 U	<4.00 U
Pentachlorobenzene	3.2	NS	29.2		<2.00 U	<2.00 U	<2.00 U	<20.0 U	<2.00 U
Pentachloronitrobenzene	0.12	NS	0.25758645		<2.00 U	<2.00 U	<2.00 U	<20.0 U	<2.00 U
Pentachlorophenol	0.041	1	1		<2.00 U	<2.00 U	<2.00 U	<20.0 U	<2.00 U
Phenacetin	34	NS	NS		<8.00 U	<8.00 U	<8.00 U	<80.0 U	<8.00 U
Phenanthrene	NS	NS	1095		<2.00 U	<2.00 U	<2.00 U	<20.0 U	<2.00 U
Phenol	5800	NS	21900		4.76	6.06	<4.00 U	91.9	<4.00 U
Phorate	3	NS	NS		<8.00 U	<8.00 U	<8.00 U	<80.0 U	<8.00 U
p-Phenylenediamine	20	NS	6935		<10.0 U*-	<10.0 U*-	<10.0 U*-	<100 U*-	<10.0 U*-
Propyzamide	1200	NS	NS		<4.00 U	<4.00 U	<4.00 U	<40.0 U	<4.00 U
Pyrene	120	NS	182.5		<2.00 U	<2.00 U	<2.00 U	<20.0 U	<2.00 U
Pyridine	20	NS	36.5		<2.00 U*-*1	<2.00 U*-*1	<2.00 U*-*1	<20.0 U*-*1	<2.00 U*-*1
Safrole	0.096	NS	NS		<4.00 U	<4.00 U	<4.00 U	<40.0 U	<4.00 U
Sulfotep	7.1	NS	NS		<4.00 U	<4.00 U	<4.00 U	<40.0 U	<4.00 U

MW-39	MW-79	MW-85	MW-86	MW-87
11/7/2023	11/7/2023	11/7/2023	11/7/2023	11/7/2023
Northeast Delineation	Northeast Delineation	Northeast Delineation	Northeast Delineation	Northeast Delineation
<10.0 U	<10.0 U	<2.00 U	<2.00 U	<2.00 U
<10.0 U	<10.0 U	<2.00 U	<2.00 U	<2.00 U
<20.0 U	<20.0 U	<4.00 U	<4.00 U	<4.00 U
<10.0 U	<10.0 U	<2.00 U	<2.00 U	<2.00 U
<10.0 U	<10.0 U	<2.00 U	<2.00 U	<2.00 U
<10.0 U	<10.0 U	<2.00 U	<2.00 U	<2.00 U
<10.0 U	<10.0 U	<2.00 U	<2.00 U	<2.00 U
<20.0 U	<20.0 U	<4.00 U	<4.00 U	<4.00 U
<10.0 U	<10.0 U	<2.00 U	<2.00 U	<2.00 U
<20.0 U	<20.0 U	<4.00 U	<4.00 U	<4.00 U
<40.0 U	<40.0 U	<8.00 U	<8.00 U	<8.00 U
<40.0 U	<40.0 U	<8.00 U	<8.00 U	<8.00 U
<40.0 U	<40.0 U	<8.00 U	<8.00 U	<8.00 U
<20.0 U	<20.0 U	<4.00 U	<4.00 U	<4.00 U
<20.0 U	<20.0 U	<4.00 U	<4.00 U	<4.00 U
<10.0 U	<10.0 U	<2.00 U	<2.00 U	<2.00 U
<10.0 U	<10.0 U	<2.00 U	<2.00 U	<2.00 U
<10.0 U	<10.0 U	<2.00 U	<2.00 U	<2.00 U
<40.0 U	<40.0 U	<8.00 U	<8.00 U	<8.00 U
<50.0 U*-	<50.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-
<20.0 U	<20.0 U	<4.00 U	<4.00 U	<4.00 U
<10.0 U	<10.0 U	<2.00 U	<2.00 U	<2.00 U
<10.0 U	<10.0 U	<2.00 U*-	<2.00 U*-	<2.00 U*-
<20.0 U	<20.0 U	<4.00 U	<4.00 U	<4.00 U
<20.0 U	<20.0 U	<4.00 U	<4.00 U	<4.00 U

Notes:
(1) MDEQ has indicated that the published TRG for acetophenone is incorrect and that the U.S. Environmental Protection Agency Regional Screening Level should be used; therefore, the MDEQ TRG is shown as "NS."
* LCS or LCS duplicate is outside acceptance limits.
*- LCS and/or LCS duplicate is outside acceptance limits, low biased.
*+ LCS and/or LCS duplicate is outside acceptance limits, high biased.
*1 LCS/LCS duplicate relative percent difference exceeds control limits.
Results are reported in micrograms per liter.
Detections are in **bold** print.
Concentrations above MDEQ Groundwater TRG are shaded gray.
Concentrations above USEPA Tapwater RSL are *green and italic font* .
Concentrations above USEPA MCL are underlined.
< / U - Indicates analyte was analyzed for but not detected.
B - Compound was found in the blank and sample.
F1 - MS and/or MSD recovery outside of acceptance limits.
F2 - MS/MSD relative percent difference exceeds control limits.
H - Sample was prepped or analyzed beyond the specified holding time.
J - Result is less than the reporting limit but greater than or equal to the method detection limit. Concentration is an approximate value.

Abbreviations:
LCS - Laboratory control sample.
MCL - Maximum Contaminant Level.
MDEQ - Mississippi Department of Environmental Quality.
MS - Matrix spike.
MSD - Matrix spike duplicate.
NS - No Standard.
RSL - Regional Screening Level.
TRG - Target Remediation Goal.
USEPA - U.S. Environmental Protection Agency.

Table 2
Surface Water Analytical Results - Greens Creek
Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022



Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	CM-00	CM-01	CM-02	CM-03	CM-04	CM-05
				Sample Date:	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023
Volatile Organic Compounds Method 8260B										
1,1,1,2-Tetrachloroethane	0.57	NS	0.405735883		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1,1-Trichloroethane	8000	200	200		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,1,2,2-Tetrachloroethane	0.076	NS	0.052745665		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1,2-trichloro-1,2,2-trifluoroethane	10000	NS	59375.78815		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
1,1,2-Trichloroethane	0.28	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1-Dichloroethane	2.8	NS	798.4375		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,1-Dichloroethene	280	7	7		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2,3-Trichloropropane	0.00075	NS	0.006233456		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2,4-Trimethylbenzene	56	NS	12.32618196		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2-Dibromo-3-chloropropane	0.00033	0.2	0.2		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,2-Dibromoethane	0.0075	0.05	0.05		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,2-Dichloroethane	0.17	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,2-Dichloropropane	0.85	5	5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,3,5-Trimethylbenzene	60	NS	12.32618196		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
1,3-Butadiene	0.071	NS	0.006956356		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
2,2,4-Trimethylpentane	NS	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Butanone (MEK)	5600	NS	1906.086427		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
2-Chlor-1,3-Butadiene	0.019	NS	14.31372549		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Methyl-1-propanol	730	NS	1825		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
4-Methyl-2-Pentanone	6300	NS	139.047619		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Acetone	18000	NS	608.3333333		<100 U	<100 U	<100 U	<100 U	<100 U	<100 U
Acetonitrile	130	NS	125.1428571		<100 U	<100 U	<100 U	<100 U	<100 U	<100 U
Acrolein	0.042	NS	0.041607628		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Acrylonitrile	0.052	NS	0.036724017		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Allyl chloride	0.73	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Benzene	0.46	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Benzyl Chloride	0.089	NS	0.062053723		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Bromodichloromethane	0.13	80	0.167866259		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Bromoform	3.3	80	8.477528742		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Bromomethane	7.5	NS	8.516666667		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Carbon Disulfide	810	NS	1042.857143		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Carbon Tetrachloride	0.46	5	5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
CFC-11	5200	NS	1288.235294		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
CFC-12	200	NS	347.6190476		<1.00 U*1	<1.00 U*1	<1.00 U*1	<1.00 U*1	<1.00 U*1	<1.00 U*1
Chlorobenzene	78	100	100		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Chlorodibromomethane	0.87	80	0.125584916		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U

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MDEQ AI No. 2022



	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	CM-00	CM-01	CM-02	CM-03	CM-04	CM-05
Analyte Name				Sample Date:	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023
Volatile Organic Compounds Method 8260B (continued)										
Chloroethane	8300	NS	3.637632051		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Chloroform	0.22	80	0.154585689		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Chloromethane	190	NS	1.434212853		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
cis-1,2-Dichloroethene	25	70	70		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
cis-1,3-Dichloropropene	NS	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Cyclohexane	13000	NS	NS		<5.00 U	1.89 J	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Dibromomethane	8.3	NS	60.83333333		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Dichloromethane	11	5	5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Ethyl Methacrylate	630	NS	547.5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Ethylbenzene	1.5	700	700		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Hexane	1500	NS	350.1792215		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Iodomethane	NS	NS	NS		<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U
Isopropyl alcohol	410	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Isopropylbenzene	450	NS	679.0697674		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
m,p-Xylenes	NS	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Methyl methacrylate	1400	NS	1419.444444		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Methyl N-Butyl Ketone (2-Hexanone)	38	NS	1460		<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<50.0 U
Methylacrylonitrile	1.9	NS	1.042857143		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Methyl-tert-butyl ether	14	NS	40		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
n-Propylbenzene	660	NS	243.3333333		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
o-Xylene	190	NS	12166.66667		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Propionitrile	NS	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Styrene (Monomer)	1200	100	100		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Tetrachloroethene	11	5	5		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Tetrahydrofuran	3400	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Toluene	1100	1000	1000		0.569 J	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Total Xylenes	190	10000	10000		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
trans-1,2-Dichloroethene	68	100	100		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
trans-1,3-Dichloropropene	NS	NS	NS		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
trans-1,4-Dichloro-2-butene	0.0013	NS	NS		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Trichloroethene	0.49	5	5		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Vinyl acetate	410	NS	412.1235491		<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U
Vinyl chloride	0.019	2	2		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U

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Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	CM-00	CM-01	CM-02	CM-03	CM-04	CM-05
				Sample Date:	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023
Semivolatile Organic Compounds Method 8270D										
1,1-Biphenyl	0.83	NS	304.1666667		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,2,4,5-Tetrachlorobenzene	0.17	NS	10.95		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,2,4-Trichlorobenzene	1.2	70	70		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,2-Dichlorobenzene	300	600	600		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,3,5-Trinitrobenzene	590	NS	1095		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,3-Dichlorobenzene	NS	NS	5.475		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,3-Dinitrobenzene	2	NS	3.65		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,4-Dichlorobenzene	0.48	75	75		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
1,4-Dioxane	0.46	NS	6.088407006		0.191 J	0.768	0.193 J	1.07	17.6	51.5
1,4-Naphthoquinone	NS	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
1-Naphthylamine	NS	NS	NS		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,2-Oxybis(1-Chloropropane)	710	NS	0.2603888		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,3,4,6-Tetrachlorophenol	240	NS	1095		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,4,5-Trichlorophenol	1200	NS	3650		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,4,6-Trichlorophenol	4.1	NS	6.088407006		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,4-Dichlorophenol	46	NS	109.5		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,4-Dimethylphenol	360	NS	730		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,4-Dinitrophenol	39	NS	73		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
2,4-Dinitrotoluene	0.24	NS	73		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,6-Dichlorophenol	NS	NS	NS		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2,6-Dinitrotoluene	0.049	NS	36.5		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2-Acetylaminofluorene	0.016	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
2-Chloronaphthalene	750	NS	486.6666667		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
2-Chlorophenol	91	NS	30.41666667		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2-Methyl-4,6-dinitrophenol	1.5	NS	3.65		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
2-Methylnaphthalene	36	NS	121.6666667		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2-Methylphenol	930	NS	1825		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2-Naphthylamine	0.039	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
2-Nitroaniline	190	NS	0.417142857		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
2-Nitrophenol	NS	NS	0.4161		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
2-Picoline	NS	NS	NS		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
3,3-Dichlorobenzidine	0.13	NS	0.148827727		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
3,3-Dimethylbenzidine	0.0065	NS	0.007279617		<8.00 U*-	<8.00 U*-	<8.00 U*-	<8.00 U*-	<8.00 U*-	<8.00 U*-
3-Methylchloranthrene	0.0011	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
3-Methylphenol, 4-Methylphenol	NS	NS	NS		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
3-Nitroaniline	NS	NS	NS		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U

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Analyte Name	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	CM-00	CM-01	CM-02	CM-03	CM-04	CM-05
				Sample Date:	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023
Semivolatile Organic Compounds Method 8270D (continued)										
4-Aminobiphenyl	0.003	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
4-Bromophenyl phenyl ether	NS	NS	NS		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
4-Chloro-3-Methylphenol	1400	NS	73000		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
4-Chlorophenyl phenyl ether	NS	NS	NS		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
4-Dimethylaminoazobenzene	0.005	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
4-Nitroaniline	3.8	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
4-Nitroquinoline-N-Oxide	NS	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
5-Nitro-o-Toluidine	8.2	NS	2.029469002		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
7,12-Dimethylbenz(a)anthracene	0.0001	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Acenaphthene	530	NS	365		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Acenaphthylene	NS	NS	2190		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Acetophenone ⁽¹⁾	1900	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Aniline	13	NS	11.74955738		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Anthracene	1800	NS	43.4		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Aramite	1.3	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Aramite Peak 1	NS	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Aramite Peak 2	NS	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Benz(a)anthracene	0.03	NS	0.091743119		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Benzo(a)pyrene	0.025	0.2	0.2		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Benzo(b)fluoranthene	0.25	NS	0.091743119		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Benzo(g,h,i)perylene	NS	NS	1095		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Benzo(k)fluoranthene	2.5	NS	0.917431193		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Benzyl Alcohol	2000	NS	10950		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
bis(2-Chloroethoxy)methane	59	NS	NS		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
bis(2-Chloroethyl)ether	0.014	NS	0.009202473		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
bis(2-Ethylhexyl)phthalate	5.6	6	6		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Butyl benzyl phthalate	16	NS	2690		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Chrysene	25	NS	9.174311927		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Diallate	0.54	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Diallate Peak 1	NS	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Diallate Peak 2	NS	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Dibenz(a,h)anthracene	0.025	NS	0.009174312		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Dibenzofuran	7.9	NS	24.33333333		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Diethyl phthalate	15000	NS	29200		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Dimethoate	44	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Dimethyl phthalate	NS	NS	365000		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U

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	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	CM-00	CM-01	CM-02	CM-03	CM-04	CM-05
Analyte Name				Sample Date:	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023
Semivolatile Organic Compounds Method 8270D (continued)										
Dimethylphenethylamine	NS	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Di-n-butyl phthalate	900	NS	3650		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Di-n-octyl phthalate	200	NS	20		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Dinoseb	15	7	7		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Diphenyl ether	0.83	NS	NS		<8.00 U	<8.00 U	<8.00 U	0.613 J	<8.00 U	0.903 J
Disulfoton	0.5	NS	1.46		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Ethyl Methanesulfonate	NS	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Famphur	NS	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Fluoranthene	800	NS	1460		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Fluorene	290	NS	243.3333333		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Hexachloro-1,3-butadiene	0.14	NS	0.858621501		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Hexachlorobenzene	0.0098	1	1		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Hexachlorocyclopentadiene	0.41	50	50		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Hexachloroethane	0.33	NS	4.783748362		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Hexachloropropene	NS	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Indeno(1,2,3-cd)pyrene	0.25	NS	0.091743119		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Isophorone	78	NS	70.49734428		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Isosafrole	NS	NS	NS		<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U
Isosafrole Peak 1	NS	NS	NS		<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U
Isosafrole Peak 2	NS	NS	NS		<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U	<6.00 U
Methapyrilene	NS	NS	NS		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Methyl methanesulfonate	0.79	NS	NS		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Methyl parathion	4.5	NS	9.125		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Naphthalene	0.12	NS	6.203966006		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Nitrobenzene	0.14	NS	3.532258065		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosodiethylamine	0.00017	NS	0.000446483		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
N-Nitrosodimethylamine	0.00011	NS	0.001313186		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosodi-n-butylamine	0.0027	NS	0.001894431		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosodi-n-propylamine	0.011	NS	0.009567497		3.81	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosodiphenylamine	12	NS	13.66785246		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosomorpholine	0.012	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
N-Nitroso-N-methylethylamine	0.00071	NS	0.003044204		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
N-Nitrosopiperidine	0.0082	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
N-Nitrosopyrrolidine	0.037	NS	0.031891656		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
o,o,o-Triethyl phosphorothioate	NS	NS	NS		<8.00 U	<8.00 U	<8.00 U	0.947 J	1.62 J	4.05 J
o,o-Diethyl o-pyrazinyl phosphorothioate	NS	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U

Notes on Page 6.

Table 2
Surface Water Analytical Results - Greens Creek
Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022

	USEPA Tapwater RSL	USEPA MCL	MDEQ Groundwater TRG	Location:	CM-00	CM-01	CM-02	CM-03	CM-04	CM-05
Analyte Name				Sample Date:	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023
Semivolatile Organic Compounds Method 8270D (continued)										
o-Toluidine	4.7	NS	0.279051988		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Parathion	86	NS	219		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
p-Chloroaniline	0.37	NS	146		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Pentachlorobenzene	3.2	NS	29.2		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Pentachloronitrobenzene	0.12	NS	0.25758645		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Pentachlorophenol	0.041	1	1		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Phenacetin	34	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
Phenanthrene	NS	NS	1095		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Phenol	5800	NS	21900		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Phorate	3	NS	NS		<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U	<8.00 U
p-Phenylenediamine	20	NS	6935		<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-
Propyzamide	1200	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Pyrene	120	NS	182.5		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Pyridine	20	NS	36.5		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Safrole	0.096	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U
Sulfotep	7.1	NS	NS		<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U	<4.00 U

Notes:

⁽¹⁾ MDEQ has indicated that the published TRG for acetophenone is incorrect and that the USEPA RSL should be used; therefore, the MDEQ TRG is shown as "NS."

* LCS or LCS duplicate is outside acceptance limits.

*- LCS and/or LCS duplicate is outside acceptance limits, low biased.

*+ LCS and/or LCS duplicate is outside acceptance limits, high biased.

*1 LCS/LCS duplicate relative percent difference exceeds control limits.

Results are reported in micrograms per liter.

Detections are in **bold** print.

Concentrations above MDEQ Groundwater TRG are shaded gray.

Concentrations above USEPA Tapwater RSL are *green and italic font*.

Concentrations above USEPA MCL are underlined.

< / U - Indicates analyte was analyzed for but not detected.

J - Result is less than the reporting limit but greater than or equal to the method detection limit. Concentration is an approximate value.

Abbreviations:

LCS - Laboratory control sample.

MCL - Maximum Contaminant Level.

MDEQ - Mississippi Department of Environmental Quality.

NS - No Standard.

RSL - Regional Screening Level.

TRG - Target Remediation Goals.

USEPA - U.S. Environmental Protection Agency.

Table 3
Quality Assurance/Quality Control Analytical Results
Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022

[illegible]

Notes on Page 4.

Table 3
Quality Assurance/Quality Control Analytical Results
Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022



	Location:	FB-01	FB-02	FB-03	FB-04	RB-01	RB-02	RB-03	RB-04	TB-01	TB-02	TB-03	TB-04	TB-05	TB-06	TB-07	TB-08	TB-09	TB-10	TB-11	TB-12
Analyte Name	Sample Date:	11/9/2023	11/16/2023	11/13/2023	11/14/2023	11/8/2023	11/16/2023	11/13/2023	11/14/2023	11/7/2023	11/7/2023	11/7/2023	11/8/2023	11/9/2023	11/9/2023	11/13/2023	11/13/2023	11/14/2023	11/14/2023	11/15/2023	11/15/2023
Volatile Organic Compounds Method 8260B (continued)																					
n-Propylbenzene		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
o-Xylene		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Propionitrile		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Styrene (Monomer)		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Tetrachloroethene		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Tetrahydrofuran		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Toluene		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
Total Xylenes		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
trans-1,2-Dichloroethene		<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U	<1.00 U
trans-1,3-Dichloropropene		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
trans-1,4-Dichloro-2-butene		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U
Trichloroethene		<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Vinyl acetate		<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U
Vinyl chloride		<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U	<2.00 U
Semivolatile Organic Compounds Method 8270D																					
1,1-Biphenyl		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4,5-Tetrachlorobenzene		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trinitrobenzene		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dinitrobenzene		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane		--	--	--	--	<0.580 U	<0.667 U	<0.667 U	<0.643 U	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Naphthoquinone		--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
1-Naphthylamine		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Oxybis(1-Chloropropane)		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol		--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2,6-Dichlorophenol		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2-Acetylaminofluorene		--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene		--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2-Methyl-4,6-dinitrophenol		--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	<8.00 U	--	--	--	--	--	--	--	--
2-Methylnaphthalene		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2-Naphthylamine		--	--	--	--	<8.00 U	<8.00 U*	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline		--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
2-Picoline		--	--	--	--	<2.00 U	<2.00 U*1	<2.00 U	<2.00 U*.*1	--	--	--	--	--	--	--	--	--	--	--	--
3,3-Dichlorobenzidine		--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
3,3-Dimethylbenzidine		--	--	--	--	<8.00 U*	<8.00 U*.*1	<8.00 U*	<8.00 U*.-	--	--	--	--	--	--	--	--	--	--	--	--
3-Methylchloranthrene		--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
3-Methylphenol, 4-Methylphenol		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
4-Aminobiphenyl		--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-Methylphenol		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
4-Dimethylaminoazobenzene		--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline		--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Quality Assurance/Quality Control Analytical Results
Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022



	Location:	FB-01	FB-02	FB-03	FB-04	RB-01	RB-02	RB-03	RB-04	TB-01	TB-02	TB-03	TB-04	TB-05	TB-06	TB-07	TB-08	TB-09	TB-10	TB-11	TB-12
Analyte Name	Sample Date:	11/9/2023	11/16/2023	11/13/2023	11/14/2023	11/8/2023	11/16/2023	11/13/2023	11/14/2023	11/7/2023	11/7/2023	11/7/2023	11/8/2023	11/9/2023	11/9/2023	11/13/2023	11/13/2023	11/14/2023	11/14/2023	11/15/2023	11/15/2023
Semivolatile Organic Compounds Method 8270D (continued)																					
4-Nitroquinoline-N-Oxide	--	--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
5-Nitro-o-Toluidine	--	--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	--	--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Acetophenone	--	--	--	--	--	<4.00 U	0.247 J	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Aniline	--	--	--	--	--	<4.00 U	<4.00 U*1	<4.00 U	<4.00 U*-	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Aramite	--	--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Aramite Peak 1	--	--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Aramite Peak 2	--	--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Benz(a)anthracene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	--	--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Butyl benzyl phthalate	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Diallate	--	--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Diallate Peak 1	--	--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Diallate Peak 2	--	--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Dimethoate	--	--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphenethylamine	--	--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	--	--	--	--	--	<2.00 U	<2.00 U	27.5	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Dinoseb	--	--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Diphenyl ether	--	--	--	--	--	<8.00 U	<8.00 U	<8.00 U	0.711 J	--	--	--	--	--	--	--	--	--	--	--	--
Disulfoton	--	--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl Methanesulfonate	--	--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Famphur	--	--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Hexachloro-1,3-butadiene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Hexachloropropene	--	--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Isophorone	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Isosafrole	--	--	--	--	--	<6.00 U	<6.00 U	<6.00 U	<6.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Isosafrole Peak 1	--	--	--	--	--	<6.00 U	<6.00 U	<6.00 U	<6.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Isosafrole Peak 2	--	--	--	--	--	<6.00 U	<6.00 U	<6.00 U	<6.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Methapyrilene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Methyl methanesulfonate	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Methyl parathion	--	--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	--	--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiethylamine	--	--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Quality Assurance/Quality Control Analytical Results
Monthly Progress Report (December 2023)
Hercules Superfund Site
Hattiesburg, Mississippi
MDEQ AI No. 2022



	Location:	FB-01	FB-02	FB-03	FB-04	RB-01	RB-02	RB-03	RB-04	TB-01	TB-02	TB-03	TB-04	TB-05	TB-06	TB-07	TB-08	TB-09	TB-10	TB-11	TB-12
Analyte Name	Sample Date:	11/9/2023	11/16/2023	11/13/2023	11/14/2023	11/8/2023	11/16/2023	11/13/2023	11/14/2023	11/7/2023	11/7/2023	11/7/2023	11/8/2023	11/9/2023	11/9/2023	11/13/2023	11/13/2023	11/14/2023	11/14/2023	11/15/2023	11/15/2023
Semivolatile Organic Compounds Method 8270D (continued)																					
N-Nitrosodimethylamine		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-butylamine		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine		--	--	--	--	<2.00 U	<2.00 U	0.912 J	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosomorpholine		--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitroso-N-methylethylamine		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosopiperidine		--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosopyrrolidine		--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
o,o,o-Triethyl phosphorothioate		--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
o,o-Diethyl o-pyrazinyl phosphorothioate		--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
o-Toluidine		--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Parathion		--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
p-Chloroaniline		--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Pentachlorobenzene		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Pentachloronitrobenzene		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Phenacetin		--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Phenol		--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Phorate		--	--	--	--	<8.00 U	<8.00 U	<8.00 U	<8.00 U	--	--	--	--	--	--	--	--	--	--	--	--
p-Phenylenediamine		--	--	--	--	<10.0 U*-	<10.0 U*-	<10.0 U*-	<10.0 U*-	--	--	--	--	--	--	--	--	--	--	--	--
Propyzamide		--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene		--	--	--	--	<2.00 U	<2.00 U	<2.00 U	<2.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Pyridine		--	--	--	--	<2.00 U	1.50 JB*1	<2.00 U	<2.00 U*-*1	--	--	--	--	--	--	--	--	--	--	--	--
Safrole		--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--
Sulfotep		--	--	--	--	<4.00 U	<4.00 U	<4.00 U	<4.00 U	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Results are reported in micrograms per liter.
Detections are in **bold** print.
* LCS or LCS duplicate is outside acceptance limits.
*- LCS and/or LCS duplicate is outside acceptance limits, low biased.
*+ LCS and/or LCS duplicate is outside acceptance limits, high biased.
*1 LCS/LCS duplicate relative percent difference exceeds control limits.
< / U - Indicates analyte was analyzed for but not detected.
B - Compound found in blank and sample.
J - Result is less than the reporting limit but greater than or equal to the method detection limit. Concentration is an approximate value.

Abbreviations:
FB - Field blank.
LCS - Laboratory control sample.
RB - Rinsate blank.
TB - Trip blank.

Attachment A

Laboratory Analytical Reports

ANALYTICAL REPORT

PREPARED FOR

Attn: Timothy Hassett
Ashland LLC
Ashland Hercules Research Center
500 Hercules Rd Bldg 8145
Wilmington, Delaware 19808

Generated 11/29/2023 5:12:28 PM Revision 1

JOB DESCRIPTION

Hercules Hattiesburg, MS

JOB NUMBER

860-61041-1

Eurofins Houston

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
11/29/2023 5:12:28 PM
Revision 1

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Definitions/Glossary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Houston

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Job ID: 860-61041-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-61041-1

Receipt

The samples were received on 11/9/2023 9:56 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3° C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 860-130327 recovered above the upper control limit for 1,4-Dioxane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-130327/2).

Method 8260D: The continuing calibration verification (CCV) associated with batch 860-130327 recovered outside acceptance criteria, low biased, for Dichloro difluoromethane(-27.3%)

A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The sample duplicate (DUP) precision for analytical batch 860-130327 was outside control limits. Sample non-homogeneity is suspected.

Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-130585 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260D: The continuing calibration verification (CCV) associated with batch 860-130585 recovered outside acceptance criteria, low biased, for Acrolein (-23.0%). A low level standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270E LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-130473 and analytical batch 860-131054 recovered outside control limits for the following analyte(s): Pyridine. Pyridine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E LL: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-18 (860-61041-6), MW-18 (860-61041-6[MS]) and MW-18 (860-61041-6[MSD]). Elevated reporting limits (RLs) are provided.

Method 8270E LL: The following samples required a dilution due to the nature of the sample matrix: MW-20 (860-61041-2), MW-22 (860-61041-3) and MW-19 (860-61041-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E LL: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-20 (860-61041-2), MW-22 (860-61041-3) and MW-19 (860-61041-4). Elevated reporting limits (RLs) are provided.

Methods 8270D LL, 8270E LL: The following samples were diluted due to the nature of the sample matrix: MW-22 (860-61041-3) and MW-19 (860-61041-4). Elevated reporting limits (RLs) are provided.

Method 8270E LL: The following sample was diluted due to the nature of the sample matrix: MW-20 (860-61041-2). Elevated reporting limits (RLs) are provided.

Method 8270E LL: The following analytes are non-routine analytes and was not spiked in the LCS/LCSD/MS/MSD,
Dimethoate
Dinoseb
Disulfoton

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Job ID: 860-61041-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Ethyl Parathion
Famphur
Methapyrilene
O,o,o-Triethylphosphorothioate
Phorate
Sulfotepp
Thionazin

MW-18 (860-61041-6[MS]) and MW-18 (860-61041-6[MSD])

Method 8270E LL: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 860-130473 and analytical batch 860-131436 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of 2-Nitroaniline and Diphenyl ether in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 8270E LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-130473 and analytical batch 860-131436 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270E: The matrix spike/matrix spike duplicate (MS/MSD) for preparation batch 860-130405 and analytical batch 860-131258 exceeded control limits for the following analyte: 1,4 Dioxane. Note that this analyte is a known poor performer when analyzed using this method.

Method 8270E: The surrogate recovery for the method blank and laboratory control sample associated with preparation batch 860-130405 and analytical batch 860-131258 was outside the upper control limit for Nitrobenzene-d5.

Method 8270E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-130405 and analytical batch 860-131258 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 8270E: Surrogate recovery for the following sample was outside control limits. Sample only needs 1,4-Dioxane and 1,4-Dioxane is under surrogate 2-Fluorophenol; therefore, the sample has reported.

Method 8270E: Surrogate recovery for the following samples were outside control limits: MW-20 (860-61041-2), MW-19 (860-61041-4) and MW-9 (860-61041-8). Sample only needs 1,4-Dioxane and 1,4-Dioxane is under surrogate 2-Fluorophenol; therefore, the sample has reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-24

Lab Sample ID: 860-61041-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diphenyl ether	0.734	J	8.00	0.364	ug/L	1		8270E LL	Total/NA
1,4-Dioxane	1.87		0.619	0.163	ug/L	1		8270E	Total/NA

Client Sample ID: MW-20

Lab Sample ID: 860-61041-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cumene (isopropylbenzene)	2.68		1.00	0.592	ug/L	1		8260D	Total/NA
Diethyl phthalate	1.22	J	20.0	1.18	ug/L	10		8270E LL	Total/NA
Phenol	8.10	J	40.0	2.02	ug/L	10		8270E LL	Total/NA
Diphenyl ether - DL	1460		800	36.4	ug/L	100		8270E LL	Total/NA
1,4-Dioxane	32.3		5.81	1.53	ug/L	10		8270E	Total/NA

Client Sample ID: MW-22

Lab Sample ID: 860-61041-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Methyl-2-pentanone	38.3	J	50.0	7.49	ug/L	1		8260D	Total/NA
Acetone	9.65	J	100	3.07	ug/L	1		8260D	Total/NA
Benzene	73.0		1.00	0.460	ug/L	1		8260D	Total/NA
Chlorobenzene	6.23		1.00	0.455	ug/L	1		8260D	Total/NA
Ethylbenzene	0.390	J	1.00	0.385	ug/L	1		8260D	Total/NA
Tetrahydrofuran	5.10	J	10.0	1.83	ug/L	1		8260D	Total/NA
Toluene	0.650	J	1.00	0.475	ug/L	1		8260D	Total/NA
Acetophenone	2.28	J	40.0	2.25	ug/L	10		8270E LL	Total/NA
Dibenzofuran	3.91	J	20.0	3.36	ug/L	10		8270E LL	Total/NA
Naphthalene	18.4	J	20.0	4.23	ug/L	10		8270E LL	Total/NA
Phenol	29.6	J	40.0	2.02	ug/L	10		8270E LL	Total/NA
1,1'-Biphenyl - DL	2820		400	85.7	ug/L	200		8270E LL	Total/NA
Diphenyl ether - DL	9500		1600	72.7	ug/L	200		8270E LL	Total/NA
1,4-Dioxane	8.73		0.612	0.161	ug/L	1		8270E	Total/NA

Client Sample ID: MW-19

Lab Sample ID: 860-61041-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	4.73		1.00	0.417	ug/L	1		8260D	Total/NA
1,3,5-Trimethylbenzene	1.61		1.00	0.411	ug/L	1		8260D	Total/NA
Benzene	30.7		1.00	0.460	ug/L	1		8260D	Total/NA
Chlorobenzene	4.66		1.00	0.455	ug/L	1		8260D	Total/NA
Cumene (isopropylbenzene)	2.81		1.00	0.592	ug/L	1		8260D	Total/NA
Ethylbenzene	2.29		1.00	0.385	ug/L	1		8260D	Total/NA
Propylbenzene	2.46		1.00	0.429	ug/L	1		8260D	Total/NA
Toluene	3.34		1.00	0.475	ug/L	1		8260D	Total/NA
Xylenes, Total	5.35	J	10.0	1.24	ug/L	1		8260D	Total/NA
o-Xylene	0.765	J	1.00	0.502	ug/L	1		8260D	Total/NA
m,p-Xylenes	4.58	J	10.0	1.24	ug/L	1		8260D	Total/NA
1,1'-Biphenyl	585		20.0	4.28	ug/L	10		8270E LL	Total/NA
Naphthalene	6.45	J	20.0	4.23	ug/L	10		8270E LL	Total/NA
Phenol	16.1	J	40.0	2.02	ug/L	10		8270E LL	Total/NA
Diphenyl ether - DL	4900		800	36.4	ug/L	100		8270E LL	Total/NA
1,4-Dioxane	2.36		0.610	0.160	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: TB-03 (110723)

Lab Sample ID: 860-61041-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.87	J	5.00	1.73	ug/L	1		8260D	Total/NA

Client Sample ID: MW-18

Lab Sample ID: 860-61041-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	17.9		1.00	0.455	ug/L	1		8260D	Total/NA
Acenaphthene	0.587	J F2	2.00	0.208	ug/L	1		8270E LL	Total/NA
o,o',o"-Triethylphosphorothioate	0.519	J	8.00	0.0579	ug/L	1		8270E LL	Total/NA
Phenol	3.59	J F2	4.00	0.202	ug/L	1		8270E LL	Total/NA
Diphenyl ether - DL	393		80.0	3.64	ug/L	10		8270E LL	Total/NA
1,4-Dioxane	12.7	F1	0.627	0.165	ug/L	1		8270E	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 860-61041-7

No Detections.

Client Sample ID: MW-9

Lab Sample ID: 860-61041-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o,o',o"-Triethylphosphorothioate	0.488	J	8.00	0.0579	ug/L	1		8270E LL	Total/NA
1,4-Dioxane	15.0		0.612	0.161	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-24

Lab Sample ID: 860-61041-1

Date Collected: 11/07/23 12:48

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/09/23 22:45	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/09/23 22:45	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/09/23 22:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/09/23 22:45	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/09/23 22:45	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/09/23 22:45	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/09/23 22:45	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/09/23 22:45	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/09/23 22:45	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/09/23 22:45	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/09/23 22:45	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/09/23 22:45	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/09/23 22:45	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/09/23 22:45	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/09/23 22:45	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/09/23 22:45	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/09/23 22:45	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/09/23 22:45	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/09/23 22:45	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/09/23 22:45	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/09/23 22:45	1
Acetone	<3.07	U	100	3.07	ug/L			11/09/23 22:45	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/09/23 22:45	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/09/23 22:45	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/09/23 22:45	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/09/23 22:45	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/09/23 22:45	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/09/23 22:45	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/09/23 22:45	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/09/23 22:45	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/09/23 22:45	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/09/23 22:45	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/09/23 22:45	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/09/23 22:45	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/09/23 22:45	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/09/23 22:45	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/09/23 22:45	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/09/23 22:45	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/09/23 22:45	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/09/23 22:45	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/09/23 22:45	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/09/23 22:45	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/09/23 22:45	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/09/23 22:45	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/09/23 22:45	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/09/23 22:45	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/09/23 22:45	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/09/23 22:45	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/09/23 22:45	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-24

Lab Sample ID: 860-61041-1

Date Collected: 11/07/23 12:48

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/09/23 22:45	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/09/23 22:45	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/09/23 22:45	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/09/23 22:45	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/09/23 22:45	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/09/23 22:45	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/09/23 22:45	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/09/23 22:45	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/09/23 22:45	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/09/23 22:45	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/09/23 22:45	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/09/23 22:45	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/09/23 22:45	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/09/23 22:45	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/09/23 22:45	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/09/23 22:45	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/09/23 22:45	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/09/23 22:45	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/09/23 22:45	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/09/23 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		11/09/23 22:45	1
4-Bromofluorobenzene (Surr)	97		74 - 124		11/09/23 22:45	1
Dibromofluoromethane (Surr)	102		75 - 131		11/09/23 22:45	1
Toluene-d8 (Surr)	99		80 - 120		11/09/23 22:45	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/10/23 10:32	11/17/23 23:23	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/10/23 10:32	11/17/23 23:23	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/10/23 10:32	11/17/23 23:23	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/10/23 10:32	11/17/23 23:23	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/10/23 10:32	11/17/23 23:23	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/10/23 10:32	11/17/23 23:23	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/10/23 10:32	11/17/23 23:23	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/10/23 10:32	11/17/23 23:23	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/10/23 10:32	11/17/23 23:23	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/10/23 10:32	11/17/23 23:23	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/10/23 10:32	11/17/23 23:23	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/10/23 10:32	11/17/23 23:23	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/10/23 10:32	11/17/23 23:23	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/10/23 10:32	11/17/23 23:23	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/10/23 10:32	11/17/23 23:23	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/17/23 23:23	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/10/23 10:32	11/17/23 23:23	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/10/23 10:32	11/17/23 23:23	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/17/23 23:23	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/10/23 10:32	11/17/23 23:23	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/10/23 10:32	11/17/23 23:23	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-24

Lab Sample ID: 860-61041-1

Date Collected: 11/07/23 12:48

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/10/23 10:32	11/17/23 23:23	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/10/23 10:32	11/17/23 23:23	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/10/23 10:32	11/17/23 23:23	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/17/23 23:23	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/10/23 10:32	11/17/23 23:23	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/10/23 10:32	11/17/23 23:23	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/10/23 10:32	11/17/23 23:23	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/10/23 10:32	11/17/23 23:23	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/10/23 10:32	11/17/23 23:23	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/10/23 10:32	11/17/23 23:23	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/10/23 10:32	11/17/23 23:23	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/10/23 10:32	11/17/23 23:23	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/10/23 10:32	11/17/23 23:23	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/10/23 10:32	11/17/23 23:23	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/10/23 10:32	11/17/23 23:23	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/10/23 10:32	11/17/23 23:23	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/10/23 10:32	11/17/23 23:23	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/10/23 10:32	11/17/23 23:23	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/10/23 10:32	11/17/23 23:23	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/10/23 10:32	11/17/23 23:23	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/10/23 10:32	11/17/23 23:23	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/10/23 10:32	11/17/23 23:23	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/10/23 10:32	11/17/23 23:23	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/10/23 10:32	11/17/23 23:23	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/10/23 10:32	11/17/23 23:23	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/10/23 10:32	11/17/23 23:23	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/10/23 10:32	11/17/23 23:23	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/10/23 10:32	11/17/23 23:23	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/10/23 10:32	11/17/23 23:23	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/10/23 10:32	11/17/23 23:23	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/10/23 10:32	11/17/23 23:23	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/17/23 23:23	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/10/23 10:32	11/17/23 23:23	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/10/23 10:32	11/17/23 23:23	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/10/23 10:32	11/17/23 23:23	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/10/23 10:32	11/17/23 23:23	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/10/23 10:32	11/17/23 23:23	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/10/23 10:32	11/17/23 23:23	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/10/23 10:32	11/17/23 23:23	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/10/23 10:32	11/17/23 23:23	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/17/23 23:23	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/10/23 10:32	11/17/23 23:23	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/17/23 23:23	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/10/23 10:32	11/17/23 23:23	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/10/23 10:32	11/17/23 23:23	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/10/23 10:32	11/17/23 23:23	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/10/23 10:32	11/17/23 23:23	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/10/23 10:32	11/17/23 23:23	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/10/23 10:32	11/17/23 23:23	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-24

Lab Sample ID: 860-61041-1

Date Collected: 11/07/23 12:48

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/10/23 10:32	11/17/23 23:23	1
Diphenyl ether	0.734	J	8.00	0.364	ug/L		11/10/23 10:32	11/17/23 23:23	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/10/23 10:32	11/17/23 23:23	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/10/23 10:32	11/17/23 23:23	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/10/23 10:32	11/17/23 23:23	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/10/23 10:32	11/17/23 23:23	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/17/23 23:23	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/10/23 10:32	11/17/23 23:23	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/17/23 23:23	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/10/23 10:32	11/17/23 23:23	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/10/23 10:32	11/17/23 23:23	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/10/23 10:32	11/17/23 23:23	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/10/23 10:32	11/17/23 23:23	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/10/23 10:32	11/17/23 23:23	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/10/23 10:32	11/17/23 23:23	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/10/23 10:32	11/17/23 23:23	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/10/23 10:32	11/17/23 23:23	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/10/23 10:32	11/17/23 23:23	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/10/23 10:32	11/17/23 23:23	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/10/23 10:32	11/17/23 23:23	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/10/23 10:32	11/17/23 23:23	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/10/23 10:32	11/17/23 23:23	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/10/23 10:32	11/17/23 23:23	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/17/23 23:23	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/10/23 10:32	11/17/23 23:23	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/10/23 10:32	11/17/23 23:23	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/10/23 10:32	11/17/23 23:23	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/10/23 10:32	11/17/23 23:23	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/10/23 10:32	11/17/23 23:23	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/10/23 10:32	11/17/23 23:23	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/10/23 10:32	11/17/23 23:23	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/10/23 10:32	11/17/23 23:23	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/10/23 10:32	11/17/23 23:23	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/10/23 10:32	11/17/23 23:23	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/10/23 10:32	11/17/23 23:23	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/10/23 10:32	11/17/23 23:23	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/10/23 10:32	11/17/23 23:23	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/10/23 10:32	11/17/23 23:23	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/10/23 10:32	11/17/23 23:23	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/10/23 10:32	11/17/23 23:23	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/10/23 10:32	11/17/23 23:23	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/10/23 10:32	11/17/23 23:23	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/17/23 23:23	1
Pyridine	<0.725	U *	2.00	0.725	ug/L		11/10/23 10:32	11/17/23 23:23	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/10/23 10:32	11/17/23 23:23	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/10/23 10:32	11/17/23 23:23	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/10/23 10:32	11/17/23 23:23	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/10/23 10:32	11/17/23 23:23	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/10/23 10:32	11/17/23 23:23	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-24

Lab Sample ID: 860-61041-1

Date Collected: 11/07/23 12:48

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/10/23 10:32	11/17/23 23:23	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/10/23 10:32	11/17/23 23:23	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/10/23 10:32	11/17/23 23:23	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/10/23 10:32	11/17/23 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		31 - 132	11/10/23 10:32	11/17/23 23:23	1
2-Fluorobiphenyl	65		40 - 130	11/10/23 10:32	11/17/23 23:23	1
2-Fluorophenol (Surr)	38		21 - 114	11/10/23 10:32	11/17/23 23:23	1
Nitrobenzene-d5 (Surr)	55		37 - 130	11/10/23 10:32	11/17/23 23:23	1
Phenol-d5 (Surr)	26		16 - 117	11/10/23 10:32	11/17/23 23:23	1
p-Terphenyl-d14	106		20 - 141	11/10/23 10:32	11/17/23 23:23	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.87		0.619	0.163	ug/L		11/10/23 06:40	11/15/23 20:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	123		37 - 133				11/10/23 06:40	11/15/23 20:29	1

Client Sample ID: MW-20

Lab Sample ID: 860-61041-2

Date Collected: 11/07/23 14:04

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/11/23 14:20	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/11/23 14:20	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/11/23 14:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/11/23 14:20	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/11/23 14:20	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/11/23 14:20	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/11/23 14:20	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/11/23 14:20	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/11/23 14:20	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/11/23 14:20	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/11/23 14:20	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/11/23 14:20	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/11/23 14:20	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/11/23 14:20	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/11/23 14:20	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/11/23 14:20	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/11/23 14:20	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/11/23 14:20	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/11/23 14:20	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/11/23 14:20	1
Acetone	<3.07	U	100	3.07	ug/L			11/11/23 14:20	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/11/23 14:20	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/11/23 14:20	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/11/23 14:20	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/11/23 14:20	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-20

Lab Sample ID: 860-61041-2

Date Collected: 11/07/23 14:04

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/11/23 14:20	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/11/23 14:20	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/11/23 14:20	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/11/23 14:20	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/11/23 14:20	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/11/23 14:20	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/11/23 14:20	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/11/23 14:20	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/11/23 14:20	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/11/23 14:20	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/11/23 14:20	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/11/23 14:20	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/11/23 14:20	1
Cumene (isopropylbenzene)	2.68		1.00	0.592	ug/L			11/11/23 14:20	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/11/23 14:20	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/11/23 14:20	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/11/23 14:20	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/11/23 14:20	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/11/23 14:20	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/11/23 14:20	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/11/23 14:20	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/11/23 14:20	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/11/23 14:20	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/11/23 14:20	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/11/23 14:20	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/11/23 14:20	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/11/23 14:20	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/11/23 14:20	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/11/23 14:20	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/11/23 14:20	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/11/23 14:20	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/11/23 14:20	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/11/23 14:20	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/11/23 14:20	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/11/23 14:20	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/11/23 14:20	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/11/23 14:20	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/11/23 14:20	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/11/23 14:20	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/11/23 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		11/11/23 14:20	1
4-Bromofluorobenzene (Surr)	98		74 - 124		11/11/23 14:20	1
Dibromofluoromethane (Surr)	99		75 - 131		11/11/23 14:20	1
Toluene-d8 (Surr)	98		80 - 120		11/11/23 14:20	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/14/23 12:50	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-20

Lab Sample ID: 860-61041-2

Date Collected: 11/07/23 14:04

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/14/23 12:50	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/14/23 12:50	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/14/23 12:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 144					11/14/23 12:50	1
4-Bromofluorobenzene (Surr)	101		74 - 124					11/14/23 12:50	1
Dibromofluoromethane (Surr)	97		75 - 131					11/14/23 12:50	1
Toluene-d8 (Surr)	101		80 - 120					11/14/23 12:50	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<4.28	U	20.0	4.28	ug/L		11/10/23 10:32	11/20/23 12:56	10
1,2,4,5-Tetrachlorobenzene	<6.72	U	20.0	6.72	ug/L		11/10/23 10:32	11/20/23 12:56	10
1,2,4-Trichlorobenzene	<6.80	U	20.0	6.80	ug/L		11/10/23 10:32	11/20/23 12:56	10
1,2-Dichlorobenzene	<2.96	U	20.0	2.96	ug/L		11/10/23 10:32	11/20/23 12:56	10
1,3,5-Trinitrobenzene	<14.3	U	20.0	14.3	ug/L		11/10/23 10:32	11/20/23 12:56	10
1,3-Dichlorobenzene	<3.50	U	20.0	3.50	ug/L		11/10/23 10:32	11/20/23 12:56	10
1,3-Dinitrobenzene	<1.12	U	20.0	1.12	ug/L		11/10/23 10:32	11/20/23 12:56	10
1,4-Dichlorobenzene	<4.28	U	20.0	4.28	ug/L		11/10/23 10:32	11/20/23 12:56	10
1,4-Naphthoquinone	<18.5	U	80.0	18.5	ug/L		11/10/23 10:32	11/20/23 12:56	10
1-Naphthylamine	<2.32	U	20.0	2.32	ug/L		11/10/23 10:32	11/20/23 12:56	10
2,2'-oxybis[1-chloropropane]	<1.39	U	20.0	1.39	ug/L		11/10/23 10:32	11/20/23 12:56	10
2,3,4,6-Tetrachlorophenol	<1.74	U	20.0	1.74	ug/L		11/10/23 10:32	11/20/23 12:56	10
2,4,5-Trichlorophenol	<1.08	U	20.0	1.08	ug/L		11/10/23 10:32	11/20/23 12:56	10
2,4,6-Trichlorophenol	<1.35	U	20.0	1.35	ug/L		11/10/23 10:32	11/20/23 12:56	10
2,4-Dichlorophenol	<1.15	U	20.0	1.15	ug/L		11/10/23 10:32	11/20/23 12:56	10
2,4-Dimethylphenol	<1.48	U	20.0	1.48	ug/L		11/10/23 10:32	11/20/23 12:56	10
2,4-Dinitrophenol	<14.6	U	80.0	14.6	ug/L		11/10/23 10:32	11/20/23 12:56	10
2,4-Dinitrotoluene	<1.27	U	20.0	1.27	ug/L		11/10/23 10:32	11/20/23 12:56	10
2,6-Dichlorophenol	<1.26	U	20.0	1.26	ug/L		11/10/23 10:32	11/20/23 12:56	10
2,6-Dinitrotoluene	<1.99	U	20.0	1.99	ug/L		11/10/23 10:32	11/20/23 12:56	10
2-Acetylaminofluorene	<15.2	U	80.0	15.2	ug/L		11/10/23 10:32	11/20/23 12:56	10
2-Chloronaphthalene	<10.9	U	80.0	10.9	ug/L		11/10/23 10:32	11/20/23 12:56	10
2-Chlorophenol	<0.135	U	20.0	0.135	ug/L		11/10/23 10:32	11/20/23 12:56	10
2-Methylnaphthalene	<4.80	U	20.0	4.80	ug/L		11/10/23 10:32	11/20/23 12:56	10
2-Methylphenol	<1.59	U	20.0	1.59	ug/L		11/10/23 10:32	11/20/23 12:56	10
2-Naphthylamine	<5.95	U	80.0	5.95	ug/L		11/10/23 10:32	11/20/23 12:56	10
2-Nitroaniline	<1.63	U	40.0	1.63	ug/L		11/10/23 10:32	11/20/23 12:56	10
2-Nitrophenol	<1.35	U	20.0	1.35	ug/L		11/10/23 10:32	11/20/23 12:56	10
2-Picoline	<2.15	U	20.0	2.15	ug/L		11/10/23 10:32	11/20/23 12:56	10
2-Toluidine	<9.34	U	80.0	9.34	ug/L		11/10/23 10:32	11/20/23 12:56	10
3 & 4 Methylphenol	<1.63	U	20.0	1.63	ug/L		11/10/23 10:32	11/20/23 12:56	10
3,3'-Dichlorobenzidine	<2.20	U	40.0	2.20	ug/L		11/10/23 10:32	11/20/23 12:56	10
3,3'-Dimethylbenzidine	<4.44	U *	80.0	4.44	ug/L		11/10/23 10:32	11/20/23 12:56	10
3-Methylcholanthrene	<1.59	U	80.0	1.59	ug/L		11/10/23 10:32	11/20/23 12:56	10
3-Nitroaniline	<3.44	U	20.0	3.44	ug/L		11/10/23 10:32	11/20/23 12:56	10
4,6-Dinitro-2-methylphenol	<7.36	U	80.0	7.36	ug/L		11/10/23 10:32	11/20/23 12:56	10
4-Aminobiphenyl	<2.97	U	80.0	2.97	ug/L		11/10/23 10:32	11/20/23 12:56	10
4-Bromophenyl phenyl ether	<1.67	U	20.0	1.67	ug/L		11/10/23 10:32	11/20/23 12:56	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-20

Lab Sample ID: 860-61041-2

Date Collected: 11/07/23 14:04

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<1.57	U	20.0	1.57	ug/L		11/10/23 10:32	11/20/23 12:56	10
4-Chloroaniline	<1.49	U	40.0	1.49	ug/L		11/10/23 10:32	11/20/23 12:56	10
4-Chlorophenyl phenyl ether	<2.32	U	20.0	2.32	ug/L		11/10/23 10:32	11/20/23 12:56	10
4-Nitroaniline	<2.47	U	40.0	2.47	ug/L		11/10/23 10:32	11/20/23 12:56	10
4-Nitroquinoline-1-oxide	<21.5	U	40.0	21.5	ug/L		11/10/23 10:32	11/20/23 12:56	10
7,12-Dimethylbenz(a)anthracene	<0.610	U	80.0	0.610	ug/L		11/10/23 10:32	11/20/23 12:56	10
Acenaphthene	<2.08	U	20.0	2.08	ug/L		11/10/23 10:32	11/20/23 12:56	10
Acenaphthylene	<2.15	U	20.0	2.15	ug/L		11/10/23 10:32	11/20/23 12:56	10
Acetophenone	<2.25	U	40.0	2.25	ug/L		11/10/23 10:32	11/20/23 12:56	10
alpha,alpha-Dimethyl phenethylamine	<40.0	U	40.0	40.0	ug/L		11/10/23 10:32	11/20/23 12:56	10
Aniline	<3.14	U	40.0	3.14	ug/L		11/10/23 10:32	11/20/23 12:56	10
Anthracene	<1.54	U	20.0	1.54	ug/L		11/10/23 10:32	11/20/23 12:56	10
Aramite, Total	<6.70	U	40.0	6.70	ug/L		11/10/23 10:32	11/20/23 12:56	10
Benzo[a]anthracene	<1.50	U	20.0	1.50	ug/L		11/10/23 10:32	11/20/23 12:56	10
Benzo[a]pyrene	<1.48	U	20.0	1.48	ug/L		11/10/23 10:32	11/20/23 12:56	10
Benzo[b]fluoranthene	<2.10	U	20.0	2.10	ug/L		11/10/23 10:32	11/20/23 12:56	10
Benzo[g,h,i]perylene	<1.43	U	20.0	1.43	ug/L		11/10/23 10:32	11/20/23 12:56	10
Benzo[k]fluoranthene	<1.66	U	20.0	1.66	ug/L		11/10/23 10:32	11/20/23 12:56	10
Benzyl alcohol	<45.0	U	80.0	45.0	ug/L		11/10/23 10:32	11/20/23 12:56	10
Bis(2-chloroethoxy)methane	<1.70	U	20.0	1.70	ug/L		11/10/23 10:32	11/20/23 12:56	10
Bis(2-chloroethyl)ether	<2.78	U	20.0	2.78	ug/L		11/10/23 10:32	11/20/23 12:56	10
Bis(2-ethylhexyl) phthalate	<2.25	U	20.0	2.25	ug/L		11/10/23 10:32	11/20/23 12:56	10
Butyl benzyl phthalate	<1.50	U	20.0	1.50	ug/L		11/10/23 10:32	11/20/23 12:56	10
Chrysene	<1.59	U	20.0	1.59	ug/L		11/10/23 10:32	11/20/23 12:56	10
Diallylate	<6.02	U	80.0	6.02	ug/L		11/10/23 10:32	11/20/23 12:56	10
Dibenz(a,h)anthracene	<1.48	U	20.0	1.48	ug/L		11/10/23 10:32	11/20/23 12:56	10
Dibenzofuran	<3.36	U	20.0	3.36	ug/L		11/10/23 10:32	11/20/23 12:56	10
Diethyl phthalate	1.22	J	20.0	1.18	ug/L		11/10/23 10:32	11/20/23 12:56	10
Dimethoate	<17.0	U	80.0	17.0	ug/L		11/10/23 10:32	11/20/23 12:56	10
Dimethyl phthalate	<1.43	U	20.0	1.43	ug/L		11/10/23 10:32	11/20/23 12:56	10
Di-n-butyl phthalate	<8.00	U	20.0	8.00	ug/L		11/10/23 10:32	11/20/23 12:56	10
Di-n-octyl phthalate	<1.69	U	20.0	1.69	ug/L		11/10/23 10:32	11/20/23 12:56	10
Dinoseb	<20.0	U	40.0	20.0	ug/L		11/10/23 10:32	11/20/23 12:56	10
Disulfoton	<13.9	U	80.0	13.9	ug/L		11/10/23 10:32	11/20/23 12:56	10
Ethyl methanesulfonate	<13.8	U	40.0	13.8	ug/L		11/10/23 10:32	11/20/23 12:56	10
Ethyl Parathion	<14.1	U	40.0	14.1	ug/L		11/10/23 10:32	11/20/23 12:56	10
Famphur	<80.0	U	80.0	80.0	ug/L		11/10/23 10:32	11/20/23 12:56	10
Fluoranthene	<1.48	U	20.0	1.48	ug/L		11/10/23 10:32	11/20/23 12:56	10
Fluorene	<2.05	U	20.0	2.05	ug/L		11/10/23 10:32	11/20/23 12:56	10
Hexachlorobenzene	<1.26	U	20.0	1.26	ug/L		11/10/23 10:32	11/20/23 12:56	10
Hexachlorobutadiene	<2.52	U	20.0	2.52	ug/L		11/10/23 10:32	11/20/23 12:56	10
Hexachlorocyclopentadiene	<4.31	U	20.0	4.31	ug/L		11/10/23 10:32	11/20/23 12:56	10
Hexachloroethane	<1.40	U	20.0	1.40	ug/L		11/10/23 10:32	11/20/23 12:56	10
Hexachloropropene	<2.13	U	40.0	2.13	ug/L		11/10/23 10:32	11/20/23 12:56	10
Indeno[1,2,3-cd]pyrene	<8.52	U	20.0	8.52	ug/L		11/10/23 10:32	11/20/23 12:56	10
Isophorone	<1.68	U	20.0	1.68	ug/L		11/10/23 10:32	11/20/23 12:56	10
Isosafrole	<24.6	U	60.0	24.6	ug/L		11/10/23 10:32	11/20/23 12:56	10
Methapyrilene	<1.81	U	20.0	1.81	ug/L		11/10/23 10:32	11/20/23 12:56	10
Methyl methanesulfonate	<0.610	U	20.0	0.610	ug/L		11/10/23 10:32	11/20/23 12:56	10

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-20

Lab Sample ID: 860-61041-2

Date Collected: 11/07/23 14:04

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl parathion	<16.4	U	40.0	16.4	ug/L		11/10/23 10:32	11/20/23 12:56	10
Naphthalene	<4.23	U	20.0	4.23	ug/L		11/10/23 10:32	11/20/23 12:56	10
Nitrobenzene	<9.34	U	20.0	9.34	ug/L		11/10/23 10:32	11/20/23 12:56	10
N-Nitro-o-toluidine	<13.1	U	80.0	13.1	ug/L		11/10/23 10:32	11/20/23 12:56	10
N-Nitrosodiethylamine	<15.4	U	40.0	15.4	ug/L		11/10/23 10:32	11/20/23 12:56	10
N-Nitrosodimethylamine	<1.26	U	20.0	1.26	ug/L		11/10/23 10:32	11/20/23 12:56	10
N-Nitrosodi-n-butylamine	<15.4	U	20.0	15.4	ug/L		11/10/23 10:32	11/20/23 12:56	10
N-Nitrosodi-n-propylamine	<1.61	U	20.0	1.61	ug/L		11/10/23 10:32	11/20/23 12:56	10
N-Nitrosodiphenylamine	<1.55	U	20.0	1.55	ug/L		11/10/23 10:32	11/20/23 12:56	10
N-Nitrosomethylethylamine	<1.99	U	20.0	1.99	ug/L		11/10/23 10:32	11/20/23 12:56	10
N-Nitrosomorpholine	<14.4	U	40.0	14.4	ug/L		11/10/23 10:32	11/20/23 12:56	10
N-Nitrosopiperidine	<14.4	U	40.0	14.4	ug/L		11/10/23 10:32	11/20/23 12:56	10
N-Nitrosopyrrolidine	<13.8	U	40.0	13.8	ug/L		11/10/23 10:32	11/20/23 12:56	10
o,o',o"-Triethylphosphorothioate	<0.579	U	80.0	0.579	ug/L		11/10/23 10:32	11/20/23 12:56	10
p-Dimethylamino azobenzene	<0.579	U	80.0	0.579	ug/L		11/10/23 10:32	11/20/23 12:56	10
Pentachlorobenzene	<11.8	U	20.0	11.8	ug/L		11/10/23 10:32	11/20/23 12:56	10
Pentachloronitrobenzene	<12.7	U	20.0	12.7	ug/L		11/10/23 10:32	11/20/23 12:56	10
Pentachlorophenol	<4.41	U	20.0	4.41	ug/L		11/10/23 10:32	11/20/23 12:56	10
Phenacetin	<13.2	U	80.0	13.2	ug/L		11/10/23 10:32	11/20/23 12:56	10
Phenanthrene	<1.76	U	20.0	1.76	ug/L		11/10/23 10:32	11/20/23 12:56	10
Phenol	8.10	J	40.0	2.02	ug/L		11/10/23 10:32	11/20/23 12:56	10
Phorate	<14.0	U	80.0	14.0	ug/L		11/10/23 10:32	11/20/23 12:56	10
p-Phenylene diamine	<100	U *	100	100	ug/L		11/10/23 10:32	11/20/23 12:56	10
Pronamide	<13.9	U	40.0	13.9	ug/L		11/10/23 10:32	11/20/23 12:56	10
Pyrene	<1.59	U	20.0	1.59	ug/L		11/10/23 10:32	11/20/23 12:56	10
Pyridine	<7.25	U *	20.0	7.25	ug/L		11/10/23 10:32	11/20/23 12:56	10
Safrole, Total	<1.83	U	40.0	1.83	ug/L		11/10/23 10:32	11/20/23 12:56	10
Sulfotepp	<14.3	U	40.0	14.3	ug/L		11/10/23 10:32	11/20/23 12:56	10
Thionazin	<14.4	U	80.0	14.4	ug/L		11/10/23 10:32	11/20/23 12:56	10
Aramite Peak 2	<27.4	U	40.0	27.4	ug/L		11/10/23 10:32	11/20/23 12:56	10
Isosafrole Peak 1	<24.6	U	60.0	24.6	ug/L		11/10/23 10:32	11/20/23 12:56	10
Diallate Peak 2	<6.02	U	80.0	6.02	ug/L		11/10/23 10:32	11/20/23 12:56	10
Isosafrole Peak 2	<21.2	U	60.0	21.2	ug/L		11/10/23 10:32	11/20/23 12:56	10
Diallate Peak 1	<6.75	U	80.0	6.75	ug/L		11/10/23 10:32	11/20/23 12:56	10
Aramite Peak 1	<6.70	U	40.0	6.70	ug/L		11/10/23 10:32	11/20/23 12:56	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		31 - 132	11/10/23 10:32	11/20/23 12:56	10
2-Fluorobiphenyl	59		40 - 130	11/10/23 10:32	11/20/23 12:56	10
2-Fluorophenol (Surr)	33		21 - 114	11/10/23 10:32	11/20/23 12:56	10
Nitrobenzene-d5 (Surr)	44		37 - 130	11/10/23 10:32	11/20/23 12:56	10
Phenol-d5 (Surr)	21		16 - 117	11/10/23 10:32	11/20/23 12:56	10
p-Terphenyl-d14	99		20 - 141	11/10/23 10:32	11/20/23 12:56	10

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	1460		800	36.4	ug/L		11/10/23 10:32	11/20/23 13:17	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/10/23 10:32	11/20/23 13:17	100

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-20

Date Collected: 11/07/23 14:04

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61041-2

Matrix: Water

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		40 - 130	11/10/23 10:32	11/20/23 13:17	100
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/10/23 10:32	11/20/23 13:17	100
Nitrobenzene-d5 (Surr)	65		37 - 130	11/10/23 10:32	11/20/23 13:17	100
Phenol-d5 (Surr)	0	S1-	16 - 117	11/10/23 10:32	11/20/23 13:17	100
p-Terphenyl-d14	101		20 - 141	11/10/23 10:32	11/20/23 13:17	100

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	32.3		5.81	1.53	ug/L		11/10/23 06:40	11/16/23 19:13	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	142	S1+	37 - 133				11/10/23 06:40	11/16/23 19:13	10

Client Sample ID: MW-22

Date Collected: 11/07/23 15:00

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61041-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/11/23 14:40	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/11/23 14:40	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/11/23 14:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/11/23 14:40	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/11/23 14:40	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/11/23 14:40	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/11/23 14:40	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/11/23 14:40	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/11/23 14:40	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/11/23 14:40	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/11/23 14:40	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/11/23 14:40	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/11/23 14:40	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/11/23 14:40	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/11/23 14:40	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/11/23 14:40	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/11/23 14:40	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/11/23 14:40	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/11/23 14:40	1
4-Methyl-2-pentanone	38.3	J	50.0	7.49	ug/L			11/11/23 14:40	1
Acetone	9.65	J	100	3.07	ug/L			11/11/23 14:40	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/11/23 14:40	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/11/23 14:40	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/11/23 14:40	1
Benzene	73.0		1.00	0.460	ug/L			11/11/23 14:40	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/11/23 14:40	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/11/23 14:40	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/11/23 14:40	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/11/23 14:40	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/11/23 14:40	1
Chlorobenzene	6.23		1.00	0.455	ug/L			11/11/23 14:40	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-22

Lab Sample ID: 860-61041-3

Date Collected: 11/07/23 15:00

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/11/23 14:40	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/11/23 14:40	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/11/23 14:40	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/11/23 14:40	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/11/23 14:40	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/11/23 14:40	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/11/23 14:40	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/11/23 14:40	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/11/23 14:40	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/11/23 14:40	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/11/23 14:40	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/11/23 14:40	1
Ethylbenzene	0.390	J	1.00	0.385	ug/L			11/11/23 14:40	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/11/23 14:40	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/11/23 14:40	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/11/23 14:40	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/11/23 14:40	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/11/23 14:40	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/11/23 14:40	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/11/23 14:40	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/11/23 14:40	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/11/23 14:40	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/11/23 14:40	1
Tetrahydrofuran	5.10	J	10.0	1.83	ug/L			11/11/23 14:40	1
Toluene	0.650	J	1.00	0.475	ug/L			11/11/23 14:40	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/11/23 14:40	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/11/23 14:40	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/11/23 14:40	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/11/23 14:40	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/11/23 14:40	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/11/23 14:40	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/11/23 14:40	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/11/23 14:40	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/11/23 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		11/11/23 14:40	1
4-Bromofluorobenzene (Surr)	96		74 - 124		11/11/23 14:40	1
Dibromofluoromethane (Surr)	98		75 - 131		11/11/23 14:40	1
Toluene-d8 (Surr)	98		80 - 120		11/11/23 14:40	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/14/23 13:11	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/14/23 13:11	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/14/23 13:11	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/14/23 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/14/23 13:11	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-22

Lab Sample ID: 860-61041-3

Date Collected: 11/07/23 15:00

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		74 - 124		11/14/23 13:11	1
Dibromofluoromethane (Surr)	98		75 - 131		11/14/23 13:11	1
Toluene-d8 (Surr)	101		80 - 120		11/14/23 13:11	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<6.72	U	20.0	6.72	ug/L		11/10/23 10:32	11/18/23 12:39	10
1,2,4-Trichlorobenzene	<6.80	U	20.0	6.80	ug/L		11/10/23 10:32	11/18/23 12:39	10
1,2-Dichlorobenzene	<2.96	U	20.0	2.96	ug/L		11/10/23 10:32	11/18/23 12:39	10
1,3,5-Trinitrobenzene	<14.3	U	20.0	14.3	ug/L		11/10/23 10:32	11/18/23 12:39	10
1,3-Dichlorobenzene	<3.50	U	20.0	3.50	ug/L		11/10/23 10:32	11/18/23 12:39	10
1,3-Dinitrobenzene	<1.12	U	20.0	1.12	ug/L		11/10/23 10:32	11/18/23 12:39	10
1,4-Dichlorobenzene	<4.28	U	20.0	4.28	ug/L		11/10/23 10:32	11/18/23 12:39	10
1,4-Naphthoquinone	<18.5	U	80.0	18.5	ug/L		11/10/23 10:32	11/18/23 12:39	10
1-Naphthylamine	<2.32	U	20.0	2.32	ug/L		11/10/23 10:32	11/18/23 12:39	10
2,2'-oxybis[1-chloropropane]	<1.39	U	20.0	1.39	ug/L		11/10/23 10:32	11/18/23 12:39	10
2,3,4,6-Tetrachlorophenol	<1.74	U	20.0	1.74	ug/L		11/10/23 10:32	11/18/23 12:39	10
2,4,5-Trichlorophenol	<1.08	U	20.0	1.08	ug/L		11/10/23 10:32	11/18/23 12:39	10
2,4,6-Trichlorophenol	<1.35	U	20.0	1.35	ug/L		11/10/23 10:32	11/18/23 12:39	10
2,4-Dichlorophenol	<1.15	U	20.0	1.15	ug/L		11/10/23 10:32	11/18/23 12:39	10
2,4-Dimethylphenol	<1.48	U	20.0	1.48	ug/L		11/10/23 10:32	11/18/23 12:39	10
2,4-Dinitrophenol	<14.6	U	80.0	14.6	ug/L		11/10/23 10:32	11/18/23 12:39	10
2,4-Dinitrotoluene	<1.27	U	20.0	1.27	ug/L		11/10/23 10:32	11/18/23 12:39	10
2,6-Dichlorophenol	<1.26	U	20.0	1.26	ug/L		11/10/23 10:32	11/18/23 12:39	10
2,6-Dinitrotoluene	<1.99	U	20.0	1.99	ug/L		11/10/23 10:32	11/18/23 12:39	10
2-Acetylaminofluorene	<15.2	U	80.0	15.2	ug/L		11/10/23 10:32	11/18/23 12:39	10
2-Chloronaphthalene	<10.9	U	80.0	10.9	ug/L		11/10/23 10:32	11/18/23 12:39	10
2-Chlorophenol	<0.135	U	20.0	0.135	ug/L		11/10/23 10:32	11/18/23 12:39	10
2-Methylnaphthalene	<4.80	U	20.0	4.80	ug/L		11/10/23 10:32	11/18/23 12:39	10
2-Methylphenol	<1.59	U	20.0	1.59	ug/L		11/10/23 10:32	11/18/23 12:39	10
2-Naphthylamine	<5.95	U	80.0	5.95	ug/L		11/10/23 10:32	11/18/23 12:39	10
2-Nitroaniline	<1.63	U	40.0	1.63	ug/L		11/10/23 10:32	11/18/23 12:39	10
2-Nitrophenol	<1.35	U	20.0	1.35	ug/L		11/10/23 10:32	11/18/23 12:39	10
2-Picoline	<2.15	U	20.0	2.15	ug/L		11/10/23 10:32	11/18/23 12:39	10
2-Toluidine	<9.34	U	80.0	9.34	ug/L		11/10/23 10:32	11/18/23 12:39	10
3 & 4 Methylphenol	<1.63	U	20.0	1.63	ug/L		11/10/23 10:32	11/18/23 12:39	10
3,3'-Dichlorobenzidine	<2.20	U	40.0	2.20	ug/L		11/10/23 10:32	11/18/23 12:39	10
3,3'-Dimethylbenzidine	<4.44	U *	80.0	4.44	ug/L		11/10/23 10:32	11/18/23 12:39	10
3-Methylcholanthrene	<1.59	U	80.0	1.59	ug/L		11/10/23 10:32	11/18/23 12:39	10
3-Nitroaniline	<3.44	U	20.0	3.44	ug/L		11/10/23 10:32	11/18/23 12:39	10
4,6-Dinitro-2-methylphenol	<7.36	U	80.0	7.36	ug/L		11/10/23 10:32	11/18/23 12:39	10
4-Aminobiphenyl	<2.97	U	80.0	2.97	ug/L		11/10/23 10:32	11/18/23 12:39	10
4-Bromophenyl phenyl ether	<1.67	U	20.0	1.67	ug/L		11/10/23 10:32	11/18/23 12:39	10
4-Chloro-3-methylphenol	<1.57	U	20.0	1.57	ug/L		11/10/23 10:32	11/18/23 12:39	10
4-Chloroaniline	<1.49	U	40.0	1.49	ug/L		11/10/23 10:32	11/18/23 12:39	10
4-Chlorophenyl phenyl ether	<2.32	U	20.0	2.32	ug/L		11/10/23 10:32	11/18/23 12:39	10
4-Nitroaniline	<2.47	U	40.0	2.47	ug/L		11/10/23 10:32	11/18/23 12:39	10
4-Nitroquinoline-1-oxide	<21.5	U	40.0	21.5	ug/L		11/10/23 10:32	11/18/23 12:39	10
7,12-Dimethylbenz(a)anthracene	<0.610	U	80.0	0.610	ug/L		11/10/23 10:32	11/18/23 12:39	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-22

Lab Sample ID: 860-61041-3

Date Collected: 11/07/23 15:00

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<2.08	U	20.0	2.08	ug/L		11/10/23 10:32	11/18/23 12:39	10
Acenaphthylene	<2.15	U	20.0	2.15	ug/L		11/10/23 10:32	11/18/23 12:39	10
Acetophenone	2.28	J	40.0	2.25	ug/L		11/10/23 10:32	11/18/23 12:39	10
alpha, alpha-Dimethyl phenethylamine	<40.0	U	40.0	40.0	ug/L		11/10/23 10:32	11/18/23 12:39	10
Aniline	<3.14	U	40.0	3.14	ug/L		11/10/23 10:32	11/18/23 12:39	10
Anthracene	<1.54	U	20.0	1.54	ug/L		11/10/23 10:32	11/18/23 12:39	10
Aramite, Total	<6.70	U	40.0	6.70	ug/L		11/10/23 10:32	11/18/23 12:39	10
Benzo[a]anthracene	<1.50	U	20.0	1.50	ug/L		11/10/23 10:32	11/18/23 12:39	10
Benzo[a]pyrene	<1.48	U	20.0	1.48	ug/L		11/10/23 10:32	11/18/23 12:39	10
Benzo[b]fluoranthene	<2.10	U	20.0	2.10	ug/L		11/10/23 10:32	11/18/23 12:39	10
Benzo[g,h,i]perylene	<1.43	U	20.0	1.43	ug/L		11/10/23 10:32	11/18/23 12:39	10
Benzo[k]fluoranthene	<1.66	U	20.0	1.66	ug/L		11/10/23 10:32	11/18/23 12:39	10
Benzyl alcohol	<45.0	U	80.0	45.0	ug/L		11/10/23 10:32	11/18/23 12:39	10
Bis(2-chloroethoxy)methane	<1.70	U	20.0	1.70	ug/L		11/10/23 10:32	11/18/23 12:39	10
Bis(2-chloroethyl)ether	<2.78	U	20.0	2.78	ug/L		11/10/23 10:32	11/18/23 12:39	10
Bis(2-ethylhexyl) phthalate	<2.25	U	20.0	2.25	ug/L		11/10/23 10:32	11/18/23 12:39	10
Butyl benzyl phthalate	<1.50	U	20.0	1.50	ug/L		11/10/23 10:32	11/18/23 12:39	10
Chrysene	<1.59	U	20.0	1.59	ug/L		11/10/23 10:32	11/18/23 12:39	10
Diallate	<6.02	U	80.0	6.02	ug/L		11/10/23 10:32	11/18/23 12:39	10
Dibenz(a,h)anthracene	<1.48	U	20.0	1.48	ug/L		11/10/23 10:32	11/18/23 12:39	10
Dibenzofuran	3.91	J	20.0	3.36	ug/L		11/10/23 10:32	11/18/23 12:39	10
Diethyl phthalate	<1.18	U	20.0	1.18	ug/L		11/10/23 10:32	11/18/23 12:39	10
Dimethoate	<17.0	U	80.0	17.0	ug/L		11/10/23 10:32	11/18/23 12:39	10
Dimethyl phthalate	<1.43	U	20.0	1.43	ug/L		11/10/23 10:32	11/18/23 12:39	10
Di-n-butyl phthalate	<8.00	U	20.0	8.00	ug/L		11/10/23 10:32	11/18/23 12:39	10
Di-n-octyl phthalate	<1.69	U	20.0	1.69	ug/L		11/10/23 10:32	11/18/23 12:39	10
Dinoseb	<20.0	U	40.0	20.0	ug/L		11/10/23 10:32	11/18/23 12:39	10
Disulfoton	<13.9	U	80.0	13.9	ug/L		11/10/23 10:32	11/18/23 12:39	10
Ethyl methanesulfonate	<13.8	U	40.0	13.8	ug/L		11/10/23 10:32	11/18/23 12:39	10
Ethyl Parathion	<14.1	U	40.0	14.1	ug/L		11/10/23 10:32	11/18/23 12:39	10
Famphur	<80.0	U	80.0	80.0	ug/L		11/10/23 10:32	11/18/23 12:39	10
Fluoranthene	<1.48	U	20.0	1.48	ug/L		11/10/23 10:32	11/18/23 12:39	10
Fluorene	<2.05	U	20.0	2.05	ug/L		11/10/23 10:32	11/18/23 12:39	10
Hexachlorobenzene	<1.26	U	20.0	1.26	ug/L		11/10/23 10:32	11/18/23 12:39	10
Hexachlorobutadiene	<2.52	U	20.0	2.52	ug/L		11/10/23 10:32	11/18/23 12:39	10
Hexachlorocyclopentadiene	<4.31	U	20.0	4.31	ug/L		11/10/23 10:32	11/18/23 12:39	10
Hexachloroethane	<1.40	U	20.0	1.40	ug/L		11/10/23 10:32	11/18/23 12:39	10
Hexachloropropene	<2.13	U	40.0	2.13	ug/L		11/10/23 10:32	11/18/23 12:39	10
Indeno[1,2,3-cd]pyrene	<8.52	U	20.0	8.52	ug/L		11/10/23 10:32	11/18/23 12:39	10
Isophorone	<1.68	U	20.0	1.68	ug/L		11/10/23 10:32	11/18/23 12:39	10
Isosafrole	<24.6	U	60.0	24.6	ug/L		11/10/23 10:32	11/18/23 12:39	10
Methapyrilene	<1.81	U	20.0	1.81	ug/L		11/10/23 10:32	11/18/23 12:39	10
Methyl methanesulfonate	<0.610	U	20.0	0.610	ug/L		11/10/23 10:32	11/18/23 12:39	10
Methyl parathion	<16.4	U	40.0	16.4	ug/L		11/10/23 10:32	11/18/23 12:39	10
Naphthalene	18.4	J	20.0	4.23	ug/L		11/10/23 10:32	11/18/23 12:39	10
Nitrobenzene	<9.34	U	20.0	9.34	ug/L		11/10/23 10:32	11/18/23 12:39	10
N-Nitro-o-toluidine	<13.1	U	80.0	13.1	ug/L		11/10/23 10:32	11/18/23 12:39	10
N-Nitrosodiethylamine	<15.4	U	40.0	15.4	ug/L		11/10/23 10:32	11/18/23 12:39	10
N-Nitrosodimethylamine	<1.26	U	20.0	1.26	ug/L		11/10/23 10:32	11/18/23 12:39	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-22

Lab Sample ID: 860-61041-3

Date Collected: 11/07/23 15:00

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-butylamine	<15.4	U	20.0	15.4	ug/L		11/10/23 10:32	11/18/23 12:39	10
N-Nitrosodi-n-propylamine	<1.61	U	20.0	1.61	ug/L		11/10/23 10:32	11/18/23 12:39	10
N-Nitrosodiphenylamine	<1.55	U	20.0	1.55	ug/L		11/10/23 10:32	11/18/23 12:39	10
N-Nitrosomethylethylamine	<1.99	U	20.0	1.99	ug/L		11/10/23 10:32	11/18/23 12:39	10
N-Nitrosomorpholine	<14.4	U	40.0	14.4	ug/L		11/10/23 10:32	11/18/23 12:39	10
N-Nitrosopiperidine	<14.4	U	40.0	14.4	ug/L		11/10/23 10:32	11/18/23 12:39	10
N-Nitrosopyrrolidine	<13.8	U	40.0	13.8	ug/L		11/10/23 10:32	11/18/23 12:39	10
o,o',o"-Triethylphosphorothioate	<0.579	U	80.0	0.579	ug/L		11/10/23 10:32	11/18/23 12:39	10
p-Dimethylamino azobenzene	<0.579	U	80.0	0.579	ug/L		11/10/23 10:32	11/18/23 12:39	10
Pentachlorobenzene	<11.8	U	20.0	11.8	ug/L		11/10/23 10:32	11/18/23 12:39	10
Pentachloronitrobenzene	<12.7	U	20.0	12.7	ug/L		11/10/23 10:32	11/18/23 12:39	10
Pentachlorophenol	<4.41	U	20.0	4.41	ug/L		11/10/23 10:32	11/18/23 12:39	10
Phenacetin	<13.2	U	80.0	13.2	ug/L		11/10/23 10:32	11/18/23 12:39	10
Phenanthrene	<1.76	U	20.0	1.76	ug/L		11/10/23 10:32	11/18/23 12:39	10
Phenol	29.6	J	40.0	2.02	ug/L		11/10/23 10:32	11/18/23 12:39	10
Phorate	<14.0	U	80.0	14.0	ug/L		11/10/23 10:32	11/18/23 12:39	10
p-Phenylene diamine	<100	U *	100	100	ug/L		11/10/23 10:32	11/18/23 12:39	10
Pronamide	<13.9	U	40.0	13.9	ug/L		11/10/23 10:32	11/18/23 12:39	10
Pyrene	<1.59	U	20.0	1.59	ug/L		11/10/23 10:32	11/18/23 12:39	10
Pyridine	<7.25	U *	20.0	7.25	ug/L		11/10/23 10:32	11/18/23 12:39	10
Safrole, Total	<1.83	U	40.0	1.83	ug/L		11/10/23 10:32	11/18/23 12:39	10
Sulfotepp	<14.3	U	40.0	14.3	ug/L		11/10/23 10:32	11/18/23 12:39	10
Thionazin	<14.4	U	80.0	14.4	ug/L		11/10/23 10:32	11/18/23 12:39	10
Aramite Peak 2	<27.4	U	40.0	27.4	ug/L		11/10/23 10:32	11/18/23 12:39	10
Isosafrole Peak 1	<24.6	U	60.0	24.6	ug/L		11/10/23 10:32	11/18/23 12:39	10
Diallate Peak 2	<6.02	U	80.0	6.02	ug/L		11/10/23 10:32	11/18/23 12:39	10
Isosafrole Peak 2	<21.2	U	60.0	21.2	ug/L		11/10/23 10:32	11/18/23 12:39	10
Diallate Peak 1	<6.75	U	80.0	6.75	ug/L		11/10/23 10:32	11/18/23 12:39	10
Aramite Peak 1	<6.70	U	40.0	6.70	ug/L		11/10/23 10:32	11/18/23 12:39	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	99		31 - 132	11/10/23 10:32	11/18/23 12:39	10
2-Fluorobiphenyl	108		40 - 130	11/10/23 10:32	11/18/23 12:39	10
2-Fluorophenol (Surr)	53		21 - 114	11/10/23 10:32	11/18/23 12:39	10
Nitrobenzene-d5 (Surr)	70		37 - 130	11/10/23 10:32	11/18/23 12:39	10
Phenol-d5 (Surr)	36		16 - 117	11/10/23 10:32	11/18/23 12:39	10
p-Terphenyl-d14	127		20 - 141	11/10/23 10:32	11/18/23 12:39	10

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	2820		400	85.7	ug/L		11/10/23 10:32	11/20/23 13:38	200
Diphenyl ether	9500		1600	72.7	ug/L		11/10/23 10:32	11/20/23 13:38	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/10/23 10:32	11/20/23 13:38	200
2-Fluorobiphenyl	129		40 - 130	11/10/23 10:32	11/20/23 13:38	200
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/10/23 10:32	11/20/23 13:38	200
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/10/23 10:32	11/20/23 13:38	200
Phenol-d5 (Surr)	0	S1-	16 - 117	11/10/23 10:32	11/20/23 13:38	200
p-Terphenyl-d14	124		20 - 141	11/10/23 10:32	11/20/23 13:38	200

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-22

Date Collected: 11/07/23 15:00

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61041-3

Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	8.73		0.612	0.161	ug/L		11/10/23 06:40	11/15/23 21:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	122		37 - 133				11/10/23 06:40	11/15/23 21:28	1

Client Sample ID: MW-19

Date Collected: 11/07/23 16:04

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61041-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/11/23 15:01	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/11/23 15:01	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/11/23 15:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/11/23 15:01	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/11/23 15:01	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/11/23 15:01	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/11/23 15:01	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/11/23 15:01	1
1,2,4-Trimethylbenzene	4.73		1.00	0.417	ug/L			11/11/23 15:01	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/11/23 15:01	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/11/23 15:01	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/11/23 15:01	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/11/23 15:01	1
1,3,5-Trimethylbenzene	1.61		1.00	0.411	ug/L			11/11/23 15:01	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/11/23 15:01	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/11/23 15:01	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/11/23 15:01	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/11/23 15:01	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/11/23 15:01	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/11/23 15:01	1
Acetone	<3.07	U	100	3.07	ug/L			11/11/23 15:01	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/11/23 15:01	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/11/23 15:01	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/11/23 15:01	1
Benzene	30.7		1.00	0.460	ug/L			11/11/23 15:01	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/11/23 15:01	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/11/23 15:01	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/11/23 15:01	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/11/23 15:01	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/11/23 15:01	1
Chlorobenzene	4.66		1.00	0.455	ug/L			11/11/23 15:01	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/11/23 15:01	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/11/23 15:01	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/11/23 15:01	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/11/23 15:01	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/11/23 15:01	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/11/23 15:01	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/11/23 15:01	1
Cumene (isopropylbenzene)	2.81		1.00	0.592	ug/L			11/11/23 15:01	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-19

Lab Sample ID: 860-61041-4

Date Collected: 11/07/23 16:04

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/11/23 15:01	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/11/23 15:01	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/11/23 15:01	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/11/23 15:01	1
Ethylbenzene	2.29		1.00	0.385	ug/L			11/11/23 15:01	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/11/23 15:01	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/11/23 15:01	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/11/23 15:01	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/11/23 15:01	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/11/23 15:01	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/11/23 15:01	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/11/23 15:01	1
Propylbenzene	2.46		1.00	0.429	ug/L			11/11/23 15:01	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/11/23 15:01	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/11/23 15:01	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/11/23 15:01	1
Toluene	3.34		1.00	0.475	ug/L			11/11/23 15:01	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/11/23 15:01	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/11/23 15:01	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/11/23 15:01	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/11/23 15:01	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/11/23 15:01	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/11/23 15:01	1
Xylenes, Total	5.35	J	10.0	1.24	ug/L			11/11/23 15:01	1
o-Xylene	0.765	J	1.00	0.502	ug/L			11/11/23 15:01	1
m,p-Xylenes	4.58	J	10.0	1.24	ug/L			11/11/23 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		11/11/23 15:01	1
4-Bromofluorobenzene (Surr)	98		74 - 124		11/11/23 15:01	1
Dibromofluoromethane (Surr)	97		75 - 131		11/11/23 15:01	1
Toluene-d8 (Surr)	98		80 - 120		11/11/23 15:01	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/14/23 13:31	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/14/23 13:31	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/14/23 13:31	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/14/23 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		11/14/23 13:31	1
4-Bromofluorobenzene (Surr)	96		74 - 124		11/14/23 13:31	1
Dibromofluoromethane (Surr)	97		75 - 131		11/14/23 13:31	1
Toluene-d8 (Surr)	100		80 - 120		11/14/23 13:31	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	585		20.0	4.28	ug/L		11/10/23 10:32	11/18/23 13:00	10
1,2,4,5-Tetrachlorobenzene	<6.72	U	20.0	6.72	ug/L		11/10/23 10:32	11/18/23 13:00	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-19

Lab Sample ID: 860-61041-4

Date Collected: 11/07/23 16:04

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<6.80	U	20.0	6.80	ug/L		11/10/23 10:32	11/18/23 13:00	10
1,2-Dichlorobenzene	<2.96	U	20.0	2.96	ug/L		11/10/23 10:32	11/18/23 13:00	10
1,3,5-Trinitrobenzene	<14.3	U	20.0	14.3	ug/L		11/10/23 10:32	11/18/23 13:00	10
1,3-Dichlorobenzene	<3.50	U	20.0	3.50	ug/L		11/10/23 10:32	11/18/23 13:00	10
1,3-Dinitrobenzene	<1.12	U	20.0	1.12	ug/L		11/10/23 10:32	11/18/23 13:00	10
1,4-Dichlorobenzene	<4.28	U	20.0	4.28	ug/L		11/10/23 10:32	11/18/23 13:00	10
1,4-Naphthoquinone	<18.5	U	80.0	18.5	ug/L		11/10/23 10:32	11/18/23 13:00	10
1-Naphthylamine	<2.32	U	20.0	2.32	ug/L		11/10/23 10:32	11/18/23 13:00	10
2,2'-oxybis[1-chloropropane]	<1.39	U	20.0	1.39	ug/L		11/10/23 10:32	11/18/23 13:00	10
2,3,4,6-Tetrachlorophenol	<1.74	U	20.0	1.74	ug/L		11/10/23 10:32	11/18/23 13:00	10
2,4,5-Trichlorophenol	<1.08	U	20.0	1.08	ug/L		11/10/23 10:32	11/18/23 13:00	10
2,4,6-Trichlorophenol	<1.35	U	20.0	1.35	ug/L		11/10/23 10:32	11/18/23 13:00	10
2,4-Dichlorophenol	<1.15	U	20.0	1.15	ug/L		11/10/23 10:32	11/18/23 13:00	10
2,4-Dimethylphenol	<1.48	U	20.0	1.48	ug/L		11/10/23 10:32	11/18/23 13:00	10
2,4-Dinitrophenol	<14.6	U	80.0	14.6	ug/L		11/10/23 10:32	11/18/23 13:00	10
2,4-Dinitrotoluene	<1.27	U	20.0	1.27	ug/L		11/10/23 10:32	11/18/23 13:00	10
2,6-Dichlorophenol	<1.26	U	20.0	1.26	ug/L		11/10/23 10:32	11/18/23 13:00	10
2,6-Dinitrotoluene	<1.99	U	20.0	1.99	ug/L		11/10/23 10:32	11/18/23 13:00	10
2-Acetylaminofluorene	<15.2	U	80.0	15.2	ug/L		11/10/23 10:32	11/18/23 13:00	10
2-Chloronaphthalene	<10.9	U	80.0	10.9	ug/L		11/10/23 10:32	11/18/23 13:00	10
2-Chlorophenol	<0.135	U	20.0	0.135	ug/L		11/10/23 10:32	11/18/23 13:00	10
2-Methylnaphthalene	<4.80	U	20.0	4.80	ug/L		11/10/23 10:32	11/18/23 13:00	10
2-Methylphenol	<1.59	U	20.0	1.59	ug/L		11/10/23 10:32	11/18/23 13:00	10
2-Naphthylamine	<5.95	U	80.0	5.95	ug/L		11/10/23 10:32	11/18/23 13:00	10
2-Nitroaniline	<1.63	U	40.0	1.63	ug/L		11/10/23 10:32	11/18/23 13:00	10
2-Nitrophenol	<1.35	U	20.0	1.35	ug/L		11/10/23 10:32	11/18/23 13:00	10
2-Picoline	<2.15	U	20.0	2.15	ug/L		11/10/23 10:32	11/18/23 13:00	10
2-Toluidine	<9.34	U	80.0	9.34	ug/L		11/10/23 10:32	11/18/23 13:00	10
3 & 4 Methylphenol	<1.63	U	20.0	1.63	ug/L		11/10/23 10:32	11/18/23 13:00	10
3,3'-Dichlorobenzidine	<2.20	U	40.0	2.20	ug/L		11/10/23 10:32	11/18/23 13:00	10
3,3'-Dimethylbenzidine	<4.44	U *	80.0	4.44	ug/L		11/10/23 10:32	11/18/23 13:00	10
3-Methylcholanthrene	<1.59	U	80.0	1.59	ug/L		11/10/23 10:32	11/18/23 13:00	10
3-Nitroaniline	<3.44	U	20.0	3.44	ug/L		11/10/23 10:32	11/18/23 13:00	10
4,6-Dinitro-2-methylphenol	<7.36	U	80.0	7.36	ug/L		11/10/23 10:32	11/18/23 13:00	10
4-Aminobiphenyl	<2.97	U	80.0	2.97	ug/L		11/10/23 10:32	11/18/23 13:00	10
4-Bromophenyl phenyl ether	<1.67	U	20.0	1.67	ug/L		11/10/23 10:32	11/18/23 13:00	10
4-Chloro-3-methylphenol	<1.57	U	20.0	1.57	ug/L		11/10/23 10:32	11/18/23 13:00	10
4-Chloroaniline	<1.49	U	40.0	1.49	ug/L		11/10/23 10:32	11/18/23 13:00	10
4-Chlorophenyl phenyl ether	<2.32	U	20.0	2.32	ug/L		11/10/23 10:32	11/18/23 13:00	10
4-Nitroaniline	<2.47	U	40.0	2.47	ug/L		11/10/23 10:32	11/18/23 13:00	10
4-Nitroquinoline-1-oxide	<21.5	U	40.0	21.5	ug/L		11/10/23 10:32	11/18/23 13:00	10
7,12-Dimethylbenz(a)anthracene	<0.610	U	80.0	0.610	ug/L		11/10/23 10:32	11/18/23 13:00	10
Acenaphthene	<2.08	U	20.0	2.08	ug/L		11/10/23 10:32	11/18/23 13:00	10
Acenaphthylene	<2.15	U	20.0	2.15	ug/L		11/10/23 10:32	11/18/23 13:00	10
Acetophenone	<2.25	U	40.0	2.25	ug/L		11/10/23 10:32	11/18/23 13:00	10
alpha,alpha-Dimethyl phenethylamine	<40.0	U	40.0	40.0	ug/L		11/10/23 10:32	11/18/23 13:00	10
Aniline	<3.14	U	40.0	3.14	ug/L		11/10/23 10:32	11/18/23 13:00	10
Anthracene	<1.54	U	20.0	1.54	ug/L		11/10/23 10:32	11/18/23 13:00	10
Aramite, Total	<6.70	U	40.0	6.70	ug/L		11/10/23 10:32	11/18/23 13:00	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-19

Lab Sample ID: 860-61041-4

Date Collected: 11/07/23 16:04

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<1.50	U	20.0	1.50	ug/L		11/10/23 10:32	11/18/23 13:00	10
Benzo[a]pyrene	<1.48	U	20.0	1.48	ug/L		11/10/23 10:32	11/18/23 13:00	10
Benzo[b]fluoranthene	<2.10	U	20.0	2.10	ug/L		11/10/23 10:32	11/18/23 13:00	10
Benzo[g,h,i]perylene	<1.43	U	20.0	1.43	ug/L		11/10/23 10:32	11/18/23 13:00	10
Benzo[k]fluoranthene	<1.66	U	20.0	1.66	ug/L		11/10/23 10:32	11/18/23 13:00	10
Benzyl alcohol	<45.0	U	80.0	45.0	ug/L		11/10/23 10:32	11/18/23 13:00	10
Bis(2-chloroethoxy)methane	<1.70	U	20.0	1.70	ug/L		11/10/23 10:32	11/18/23 13:00	10
Bis(2-chloroethyl)ether	<2.78	U	20.0	2.78	ug/L		11/10/23 10:32	11/18/23 13:00	10
Bis(2-ethylhexyl) phthalate	<2.25	U	20.0	2.25	ug/L		11/10/23 10:32	11/18/23 13:00	10
Butyl benzyl phthalate	<1.50	U	20.0	1.50	ug/L		11/10/23 10:32	11/18/23 13:00	10
Chrysene	<1.59	U	20.0	1.59	ug/L		11/10/23 10:32	11/18/23 13:00	10
Diallate	<6.02	U	80.0	6.02	ug/L		11/10/23 10:32	11/18/23 13:00	10
Dibenz(a,h)anthracene	<1.48	U	20.0	1.48	ug/L		11/10/23 10:32	11/18/23 13:00	10
Dibenzofuran	<3.36	U	20.0	3.36	ug/L		11/10/23 10:32	11/18/23 13:00	10
Diethyl phthalate	<1.18	U	20.0	1.18	ug/L		11/10/23 10:32	11/18/23 13:00	10
Dimethoate	<17.0	U	80.0	17.0	ug/L		11/10/23 10:32	11/18/23 13:00	10
Dimethyl phthalate	<1.43	U	20.0	1.43	ug/L		11/10/23 10:32	11/18/23 13:00	10
Di-n-butyl phthalate	<8.00	U	20.0	8.00	ug/L		11/10/23 10:32	11/18/23 13:00	10
Di-n-octyl phthalate	<1.69	U	20.0	1.69	ug/L		11/10/23 10:32	11/18/23 13:00	10
Dinoseb	<20.0	U	40.0	20.0	ug/L		11/10/23 10:32	11/18/23 13:00	10
Disulfoton	<13.9	U	80.0	13.9	ug/L		11/10/23 10:32	11/18/23 13:00	10
Ethyl methanesulfonate	<13.8	U	40.0	13.8	ug/L		11/10/23 10:32	11/18/23 13:00	10
Ethyl Parathion	<14.1	U	40.0	14.1	ug/L		11/10/23 10:32	11/18/23 13:00	10
Famphur	<80.0	U	80.0	80.0	ug/L		11/10/23 10:32	11/18/23 13:00	10
Fluoranthene	<1.48	U	20.0	1.48	ug/L		11/10/23 10:32	11/18/23 13:00	10
Fluorene	<2.05	U	20.0	2.05	ug/L		11/10/23 10:32	11/18/23 13:00	10
Hexachlorobenzene	<1.26	U	20.0	1.26	ug/L		11/10/23 10:32	11/18/23 13:00	10
Hexachlorobutadiene	<2.52	U	20.0	2.52	ug/L		11/10/23 10:32	11/18/23 13:00	10
Hexachlorocyclopentadiene	<4.31	U	20.0	4.31	ug/L		11/10/23 10:32	11/18/23 13:00	10
Hexachloroethane	<1.40	U	20.0	1.40	ug/L		11/10/23 10:32	11/18/23 13:00	10
Hexachloropropene	<2.13	U	40.0	2.13	ug/L		11/10/23 10:32	11/18/23 13:00	10
Indeno[1,2,3-cd]pyrene	<8.52	U	20.0	8.52	ug/L		11/10/23 10:32	11/18/23 13:00	10
Isophorone	<1.68	U	20.0	1.68	ug/L		11/10/23 10:32	11/18/23 13:00	10
Isosafrole	<24.6	U	60.0	24.6	ug/L		11/10/23 10:32	11/18/23 13:00	10
Methapyrilene	<1.81	U	20.0	1.81	ug/L		11/10/23 10:32	11/18/23 13:00	10
Methyl methanesulfonate	<0.610	U	20.0	0.610	ug/L		11/10/23 10:32	11/18/23 13:00	10
Methyl parathion	<16.4	U	40.0	16.4	ug/L		11/10/23 10:32	11/18/23 13:00	10
Naphthalene	6.45	J	20.0	4.23	ug/L		11/10/23 10:32	11/18/23 13:00	10
Nitrobenzene	<9.34	U	20.0	9.34	ug/L		11/10/23 10:32	11/18/23 13:00	10
N-Nitro-o-toluidine	<13.1	U	80.0	13.1	ug/L		11/10/23 10:32	11/18/23 13:00	10
N-Nitrosodiethylamine	<15.4	U	40.0	15.4	ug/L		11/10/23 10:32	11/18/23 13:00	10
N-Nitrosodimethylamine	<1.26	U	20.0	1.26	ug/L		11/10/23 10:32	11/18/23 13:00	10
N-Nitrosodi-n-butylamine	<15.4	U	20.0	15.4	ug/L		11/10/23 10:32	11/18/23 13:00	10
N-Nitrosodi-n-propylamine	<1.61	U	20.0	1.61	ug/L		11/10/23 10:32	11/18/23 13:00	10
N-Nitrosodiphenylamine	<1.55	U	20.0	1.55	ug/L		11/10/23 10:32	11/18/23 13:00	10
N-Nitrosomethylethylamine	<1.99	U	20.0	1.99	ug/L		11/10/23 10:32	11/18/23 13:00	10
N-Nitrosomorpholine	<14.4	U	40.0	14.4	ug/L		11/10/23 10:32	11/18/23 13:00	10
N-Nitrosopiperidine	<14.4	U	40.0	14.4	ug/L		11/10/23 10:32	11/18/23 13:00	10
N-Nitrosopyrrolidine	<13.8	U	40.0	13.8	ug/L		11/10/23 10:32	11/18/23 13:00	10

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-19

Lab Sample ID: 860-61041-4

Date Collected: 11/07/23 16:04

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o,o',o''-Triethylphosphorothioate	<0.579	U	80.0	0.579	ug/L		11/10/23 10:32	11/18/23 13:00	10
p-Dimethylamino azobenzene	<0.579	U	80.0	0.579	ug/L		11/10/23 10:32	11/18/23 13:00	10
Pentachlorobenzene	<11.8	U	20.0	11.8	ug/L		11/10/23 10:32	11/18/23 13:00	10
Pentachloronitrobenzene	<12.7	U	20.0	12.7	ug/L		11/10/23 10:32	11/18/23 13:00	10
Pentachlorophenol	<4.41	U	20.0	4.41	ug/L		11/10/23 10:32	11/18/23 13:00	10
Phenacetin	<13.2	U	80.0	13.2	ug/L		11/10/23 10:32	11/18/23 13:00	10
Phenanthrene	<1.76	U	20.0	1.76	ug/L		11/10/23 10:32	11/18/23 13:00	10
Phenol	16.1	J	40.0	2.02	ug/L		11/10/23 10:32	11/18/23 13:00	10
Phorate	<14.0	U	80.0	14.0	ug/L		11/10/23 10:32	11/18/23 13:00	10
p-Phenylene diamine	<100	U *	100	100	ug/L		11/10/23 10:32	11/18/23 13:00	10
Pronamide	<13.9	U	40.0	13.9	ug/L		11/10/23 10:32	11/18/23 13:00	10
Pyrene	<1.59	U	20.0	1.59	ug/L		11/10/23 10:32	11/18/23 13:00	10
Pyridine	<7.25	U *	20.0	7.25	ug/L		11/10/23 10:32	11/18/23 13:00	10
Safrole, Total	<1.83	U	40.0	1.83	ug/L		11/10/23 10:32	11/18/23 13:00	10
Sulfotepp	<14.3	U	40.0	14.3	ug/L		11/10/23 10:32	11/18/23 13:00	10
Thionazin	<14.4	U	80.0	14.4	ug/L		11/10/23 10:32	11/18/23 13:00	10
Aramite Peak 2	<27.4	U	40.0	27.4	ug/L		11/10/23 10:32	11/18/23 13:00	10
Isosafrole Peak 1	<24.6	U	60.0	24.6	ug/L		11/10/23 10:32	11/18/23 13:00	10
Diallate Peak 2	<6.02	U	80.0	6.02	ug/L		11/10/23 10:32	11/18/23 13:00	10
Isosafrole Peak 2	<21.2	U	60.0	21.2	ug/L		11/10/23 10:32	11/18/23 13:00	10
Diallate Peak 1	<6.75	U	80.0	6.75	ug/L		11/10/23 10:32	11/18/23 13:00	10
Aramite Peak 1	<6.70	U	40.0	6.70	ug/L		11/10/23 10:32	11/18/23 13:00	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		31 - 132	11/10/23 10:32	11/18/23 13:00	10
2-Fluorobiphenyl	59		40 - 130	11/10/23 10:32	11/18/23 13:00	10
2-Fluorophenol (Surr)	29		21 - 114	11/10/23 10:32	11/18/23 13:00	10
Nitrobenzene-d5 (Surr)	49		37 - 130	11/10/23 10:32	11/18/23 13:00	10
Phenol-d5 (Surr)	21		16 - 117	11/10/23 10:32	11/18/23 13:00	10
p-Terphenyl-d14	112		20 - 141	11/10/23 10:32	11/18/23 13:00	10

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	4900		800	36.4	ug/L		11/10/23 10:32	11/20/23 13:59	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/10/23 10:32	11/20/23 13:59	100
2-Fluorobiphenyl	60		40 - 130	11/10/23 10:32	11/20/23 13:59	100
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/10/23 10:32	11/20/23 13:59	100
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/10/23 10:32	11/20/23 13:59	100
Phenol-d5 (Surr)	0	S1-	16 - 117	11/10/23 10:32	11/20/23 13:59	100
p-Terphenyl-d14	0	S1-	20 - 141	11/10/23 10:32	11/20/23 13:59	100

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.36		0.610	0.160	ug/L		11/10/23 06:40	11/16/23 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	157	S1+	37 - 133	11/10/23 06:40	11/16/23 18:43	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: TB-03 (110723)

Lab Sample ID: 860-61041-5

Date Collected: 11/07/23 00:00

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/09/23 21:23	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/09/23 21:23	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/09/23 21:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/09/23 21:23	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/09/23 21:23	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/09/23 21:23	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/09/23 21:23	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/09/23 21:23	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/09/23 21:23	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/09/23 21:23	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/09/23 21:23	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/09/23 21:23	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/09/23 21:23	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/09/23 21:23	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/09/23 21:23	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/09/23 21:23	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/09/23 21:23	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/09/23 21:23	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/09/23 21:23	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/09/23 21:23	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/09/23 21:23	1
Acetone	<3.07	U	100	3.07	ug/L			11/09/23 21:23	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/09/23 21:23	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/09/23 21:23	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/09/23 21:23	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/09/23 21:23	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/09/23 21:23	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/09/23 21:23	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/09/23 21:23	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/09/23 21:23	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/09/23 21:23	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/09/23 21:23	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/09/23 21:23	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/09/23 21:23	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/09/23 21:23	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/09/23 21:23	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/09/23 21:23	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/09/23 21:23	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/09/23 21:23	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/09/23 21:23	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/09/23 21:23	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/09/23 21:23	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/09/23 21:23	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/09/23 21:23	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/09/23 21:23	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/09/23 21:23	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/09/23 21:23	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/09/23 21:23	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/09/23 21:23	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: TB-03 (110723)

Lab Sample ID: 860-61041-5

Date Collected: 11/07/23 00:00

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/09/23 21:23	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/09/23 21:23	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/09/23 21:23	1
Methylene Chloride	1.87	J	5.00	1.73	ug/L			11/09/23 21:23	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/09/23 21:23	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/09/23 21:23	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/09/23 21:23	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/09/23 21:23	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/09/23 21:23	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/09/23 21:23	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/09/23 21:23	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/09/23 21:23	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/09/23 21:23	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/09/23 21:23	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/09/23 21:23	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/09/23 21:23	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/09/23 21:23	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/09/23 21:23	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/09/23 21:23	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/09/23 21:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		63 - 144		11/09/23 21:23	1
4-Bromofluorobenzene (Surr)	95		74 - 124		11/09/23 21:23	1
Dibromofluoromethane (Surr)	103		75 - 131		11/09/23 21:23	1
Toluene-d8 (Surr)	97		80 - 120		11/09/23 21:23	1

Client Sample ID: MW-18

Lab Sample ID: 860-61041-6

Date Collected: 11/08/23 11:58

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/09/23 22:24	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/09/23 22:24	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/09/23 22:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/09/23 22:24	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/09/23 22:24	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/09/23 22:24	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/09/23 22:24	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/09/23 22:24	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/09/23 22:24	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/09/23 22:24	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/09/23 22:24	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/09/23 22:24	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/09/23 22:24	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/09/23 22:24	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/09/23 22:24	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/09/23 22:24	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/09/23 22:24	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-18

Lab Sample ID: 860-61041-6

Date Collected: 11/08/23 11:58

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/09/23 22:24	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/09/23 22:24	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/09/23 22:24	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/09/23 22:24	1
Acetone	<3.07	U	100	3.07	ug/L			11/09/23 22:24	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/09/23 22:24	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/09/23 22:24	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/09/23 22:24	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/09/23 22:24	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/09/23 22:24	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/09/23 22:24	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/09/23 22:24	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/09/23 22:24	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/09/23 22:24	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/09/23 22:24	1
Chlorobenzene	17.9		1.00	0.455	ug/L			11/09/23 22:24	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/09/23 22:24	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/09/23 22:24	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/09/23 22:24	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/09/23 22:24	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/09/23 22:24	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/09/23 22:24	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/09/23 22:24	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/09/23 22:24	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/09/23 22:24	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/09/23 22:24	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/09/23 22:24	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/09/23 22:24	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/09/23 22:24	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/09/23 22:24	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/09/23 22:24	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/09/23 22:24	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/09/23 22:24	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/09/23 22:24	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/09/23 22:24	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/09/23 22:24	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/09/23 22:24	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/09/23 22:24	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/09/23 22:24	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/09/23 22:24	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/09/23 22:24	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/09/23 22:24	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/09/23 22:24	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/09/23 22:24	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/09/23 22:24	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/09/23 22:24	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/09/23 22:24	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/09/23 22:24	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/09/23 22:24	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-18

Lab Sample ID: 860-61041-6

Date Collected: 11/08/23 11:58

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/09/23 22:24	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/09/23 22:24	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/09/23 22:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 144					11/09/23 22:24	1
4-Bromofluorobenzene (Surr)	94		74 - 124					11/09/23 22:24	1
Dibromofluoromethane (Surr)	106		75 - 131					11/09/23 22:24	1
Toluene-d8 (Surr)	98		80 - 120					11/09/23 22:24	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/10/23 10:32	11/16/23 16:51	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/10/23 10:32	11/16/23 16:51	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/10/23 10:32	11/16/23 16:51	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/10/23 10:32	11/16/23 16:51	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/10/23 10:32	11/16/23 16:51	1
1,3-Dichlorobenzene	<0.350	U F2	2.00	0.350	ug/L		11/10/23 10:32	11/16/23 16:51	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/10/23 10:32	11/16/23 16:51	1
1,4-Dichlorobenzene	<0.428	U F2	2.00	0.428	ug/L		11/10/23 10:32	11/16/23 16:51	1
1,4-Naphthoquinone	<1.85	U F1	8.00	1.85	ug/L		11/10/23 10:32	11/16/23 16:51	1
1-Naphthylamine	<0.232	U F1	2.00	0.232	ug/L		11/10/23 10:32	11/16/23 16:51	1
2,2'-oxybis[1-chloropropane]	<0.139	U F2	2.00	0.139	ug/L		11/10/23 10:32	11/16/23 16:51	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/10/23 10:32	11/16/23 16:51	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/10/23 10:32	11/16/23 16:51	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/10/23 10:32	11/16/23 16:51	1
2,4-Dichlorophenol	<0.115	U F2	2.00	0.115	ug/L		11/10/23 10:32	11/16/23 16:51	1
2,4-Dimethylphenol	<0.148	U F2	2.00	0.148	ug/L		11/10/23 10:32	11/16/23 16:51	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/10/23 10:32	11/16/23 16:51	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/10/23 10:32	11/16/23 16:51	1
2,6-Dichlorophenol	<0.126	U F2	2.00	0.126	ug/L		11/10/23 10:32	11/16/23 16:51	1
2,6-Dinitrotoluene	<0.199	U F2	2.00	0.199	ug/L		11/10/23 10:32	11/16/23 16:51	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/10/23 10:32	11/16/23 16:51	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/10/23 10:32	11/16/23 16:51	1
2-Chlorophenol	<0.0135	U F2	2.00	0.0135	ug/L		11/10/23 10:32	11/16/23 16:51	1
2-Methylnaphthalene	<0.480	U F2	2.00	0.480	ug/L		11/10/23 10:32	11/16/23 16:51	1
2-Methylphenol	<0.159	U F2	2.00	0.159	ug/L		11/10/23 10:32	11/16/23 16:51	1
2-Naphthylamine	<0.595	U F1	8.00	0.595	ug/L		11/10/23 10:32	11/16/23 16:51	1
2-Nitroaniline	<0.163	U F1	4.00	0.163	ug/L		11/10/23 10:32	11/16/23 16:51	1
2-Nitrophenol	<0.135	U F2	2.00	0.135	ug/L		11/10/23 10:32	11/16/23 16:51	1
2-Picoline	<0.215	U F1 F2	2.00	0.215	ug/L		11/10/23 10:32	11/16/23 16:51	1
2-Toluidine	<0.934	U F1	8.00	0.934	ug/L		11/10/23 10:32	11/16/23 16:51	1
3 & 4 Methylphenol	<0.163	U F2	2.00	0.163	ug/L		11/10/23 10:32	11/16/23 16:51	1
3,3'-Dichlorobenzidine	<0.220	U F1	4.00	0.220	ug/L		11/10/23 10:32	11/16/23 16:51	1
3,3'-Dimethylbenzidine	<0.444	U F1 *	8.00	0.444	ug/L		11/10/23 10:32	11/16/23 16:51	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/10/23 10:32	11/16/23 16:51	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/10/23 10:32	11/16/23 16:51	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/10/23 10:32	11/16/23 16:51	1
4-Aminobiphenyl	<0.297	U F1	8.00	0.297	ug/L		11/10/23 10:32	11/16/23 16:51	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/10/23 10:32	11/16/23 16:51	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-18

Lab Sample ID: 860-61041-6

Date Collected: 11/08/23 11:58

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/10/23 10:32	11/16/23 16:51	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/10/23 10:32	11/16/23 16:51	1
4-Chlorophenyl phenyl ether	<0.232	U F2	2.00	0.232	ug/L		11/10/23 10:32	11/16/23 16:51	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/10/23 10:32	11/16/23 16:51	1
4-Nitroquinoline-1-oxide	<2.15	U F1	4.00	2.15	ug/L		11/10/23 10:32	11/16/23 16:51	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/10/23 10:32	11/16/23 16:51	1
Acenaphthene	0.587	J F2	2.00	0.208	ug/L		11/10/23 10:32	11/16/23 16:51	1
Acenaphthylene	<0.215	U F2	2.00	0.215	ug/L		11/10/23 10:32	11/16/23 16:51	1
Acetophenone	<0.225	U F2	4.00	0.225	ug/L		11/10/23 10:32	11/16/23 16:51	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	4.00	4.00	ug/L		11/10/23 10:32	11/16/23 16:51	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/10/23 10:32	11/16/23 16:51	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/10/23 10:32	11/16/23 16:51	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/10/23 10:32	11/16/23 16:51	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/10/23 10:32	11/16/23 16:51	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/16/23 16:51	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/10/23 10:32	11/16/23 16:51	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/10/23 10:32	11/16/23 16:51	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/10/23 10:32	11/16/23 16:51	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/10/23 10:32	11/16/23 16:51	1
Bis(2-chloroethoxy)methane	<0.170	U F2	2.00	0.170	ug/L		11/10/23 10:32	11/16/23 16:51	1
Bis(2-chloroethyl)ether	<0.278	U F2	2.00	0.278	ug/L		11/10/23 10:32	11/16/23 16:51	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/10/23 10:32	11/16/23 16:51	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/10/23 10:32	11/16/23 16:51	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/16/23 16:51	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/10/23 10:32	11/16/23 16:51	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/16/23 16:51	1
Dibenzofuran	<0.336	U F2	2.00	0.336	ug/L		11/10/23 10:32	11/16/23 16:51	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/10/23 10:32	11/16/23 16:51	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/10/23 10:32	11/16/23 16:51	1
Dimethyl phthalate	<0.143	U F2	2.00	0.143	ug/L		11/10/23 10:32	11/16/23 16:51	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/10/23 10:32	11/16/23 16:51	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/10/23 10:32	11/16/23 16:51	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/10/23 10:32	11/16/23 16:51	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/10/23 10:32	11/16/23 16:51	1
Ethyl methanesulfonate	<1.38	U F1	4.00	1.38	ug/L		11/10/23 10:32	11/16/23 16:51	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/10/23 10:32	11/16/23 16:51	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/10/23 10:32	11/16/23 16:51	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/16/23 16:51	1
Fluorene	<0.205	U F2	2.00	0.205	ug/L		11/10/23 10:32	11/16/23 16:51	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/16/23 16:51	1
Hexachlorobutadiene	<0.252	U F2	2.00	0.252	ug/L		11/10/23 10:32	11/16/23 16:51	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/10/23 10:32	11/16/23 16:51	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/10/23 10:32	11/16/23 16:51	1
Hexachloropropene	<0.213	U F2	4.00	0.213	ug/L		11/10/23 10:32	11/16/23 16:51	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/10/23 10:32	11/16/23 16:51	1
Isophorone	<0.168	U F2	2.00	0.168	ug/L		11/10/23 10:32	11/16/23 16:51	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/10/23 10:32	11/16/23 16:51	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/10/23 10:32	11/16/23 16:51	1
Methyl methanesulfonate	<0.0610	U F1 F2	2.00	0.0610	ug/L		11/10/23 10:32	11/16/23 16:51	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-18

Lab Sample ID: 860-61041-6

Date Collected: 11/08/23 11:58

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/10/23 10:32	11/16/23 16:51	1
Naphthalene	<0.423	U F2	2.00	0.423	ug/L		11/10/23 10:32	11/16/23 16:51	1
Nitrobenzene	<0.934	U F2	2.00	0.934	ug/L		11/10/23 10:32	11/16/23 16:51	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/10/23 10:32	11/16/23 16:51	1
N-Nitrosodiethylamine	<1.54	U F1 F2	4.00	1.54	ug/L		11/10/23 10:32	11/16/23 16:51	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/16/23 16:51	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/10/23 10:32	11/16/23 16:51	1
N-Nitrosodi-n-propylamine	<0.161	U F2	2.00	0.161	ug/L		11/10/23 10:32	11/16/23 16:51	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/10/23 10:32	11/16/23 16:51	1
N-Nitrosomethylethylamine	<0.199	U F2	2.00	0.199	ug/L		11/10/23 10:32	11/16/23 16:51	1
N-Nitrosomorpholine	<1.44	U F1 F2	4.00	1.44	ug/L		11/10/23 10:32	11/16/23 16:51	1
N-Nitrosopiperidine	<1.44	U F2	4.00	1.44	ug/L		11/10/23 10:32	11/16/23 16:51	1
N-Nitrosopyrrolidine	<1.38	U F2	4.00	1.38	ug/L		11/10/23 10:32	11/16/23 16:51	1
o,o',o"-Triethylphosphorothioate	0.519	J	8.00	0.0579	ug/L		11/10/23 10:32	11/28/23 13:59	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/10/23 10:32	11/16/23 16:51	1
Pentachlorobenzene	<1.18	U F2	2.00	1.18	ug/L		11/10/23 10:32	11/16/23 16:51	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/10/23 10:32	11/16/23 16:51	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/10/23 10:32	11/16/23 16:51	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/10/23 10:32	11/16/23 16:51	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/10/23 10:32	11/16/23 16:51	1
Phenol	3.59	J F2	4.00	0.202	ug/L		11/10/23 10:32	11/16/23 16:51	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/10/23 10:32	11/16/23 16:51	1
p-Phenylene diamine	<10.0	U F1 *-	10.0	10.0	ug/L		11/10/23 10:32	11/16/23 16:51	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/10/23 10:32	11/16/23 16:51	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/16/23 16:51	1
Pyridine	<0.725	U F1 F2 *-	2.00	0.725	ug/L		11/10/23 10:32	11/16/23 16:51	1
Safrole, Total	<0.183	U F1	4.00	0.183	ug/L		11/10/23 10:32	11/16/23 16:51	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/10/23 10:32	11/16/23 16:51	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/10/23 10:32	11/16/23 16:51	1
Aramite Peak 2	<2.74	U F2	4.00	2.74	ug/L		11/10/23 10:32	11/16/23 16:51	1
Isosafrole Peak 1	<2.46	U F1	6.00	2.46	ug/L		11/10/23 10:32	11/16/23 16:51	1
Diallate Peak 2	<0.602	U F2 F1	8.00	0.602	ug/L		11/10/23 10:32	11/16/23 16:51	1
Isosafrole Peak 2	<2.12	U F1	6.00	2.12	ug/L		11/10/23 10:32	11/16/23 16:51	1
Diallate Peak 1	<0.675	U F2 F1	8.00	0.675	ug/L		11/10/23 10:32	11/16/23 16:51	1
Aramite Peak 1	<0.670	U F2	4.00	0.670	ug/L		11/10/23 10:32	11/16/23 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		31 - 132	11/10/23 10:32	11/16/23 16:51	1
2,4,6-Tribromophenol (Surr)	86		31 - 132	11/10/23 10:32	11/28/23 13:59	1
2-Fluorobiphenyl	79		40 - 130	11/10/23 10:32	11/16/23 16:51	1
2-Fluorobiphenyl	73		40 - 130	11/10/23 10:32	11/28/23 13:59	1
2-Fluorophenol (Surr)	36		21 - 114	11/10/23 10:32	11/16/23 16:51	1
2-Fluorophenol (Surr)	33		21 - 114	11/10/23 10:32	11/28/23 13:59	1
Nitrobenzene-d5 (Surr)	56		37 - 130	11/10/23 10:32	11/16/23 16:51	1
Nitrobenzene-d5 (Surr)	50		37 - 130	11/10/23 10:32	11/28/23 13:59	1
Phenol-d5 (Surr)	28		16 - 117	11/10/23 10:32	11/16/23 16:51	1
Phenol-d5 (Surr)	24		16 - 117	11/10/23 10:32	11/28/23 13:59	1
p-Terphenyl-d14	100		20 - 141	11/10/23 10:32	11/16/23 16:51	1
p-Terphenyl-d14	108		20 - 141	11/10/23 10:32	11/28/23 13:59	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-18

Lab Sample ID: 860-61041-6

Date Collected: 11/08/23 11:58

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	393		80.0	3.64	ug/L		11/10/23 10:32	11/17/23 13:37	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	60		31 - 132				11/10/23 10:32	11/17/23 13:37	10
2-Fluorobiphenyl	75		40 - 130				11/10/23 10:32	11/17/23 13:37	10
2-Fluorophenol (Surr)	22		21 - 114				11/10/23 10:32	11/17/23 13:37	10
Nitrobenzene-d5 (Surr)	53		37 - 130				11/10/23 10:32	11/17/23 13:37	10
Phenol-d5 (Surr)	25		16 - 117				11/10/23 10:32	11/17/23 13:37	10
p-Terphenyl-d14	99		20 - 141				11/10/23 10:32	11/17/23 13:37	10

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	12.7	F1	0.627	0.165	ug/L		11/10/23 06:40	11/15/23 22:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	149	S1+	37 - 133				11/10/23 06:40	11/15/23 22:28	1

Client Sample ID: MW-6

Lab Sample ID: 860-61041-7

Date Collected: 11/08/23 13:19

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/09/23 23:06	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/09/23 23:06	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/09/23 23:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/09/23 23:06	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/09/23 23:06	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/09/23 23:06	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/09/23 23:06	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/09/23 23:06	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/09/23 23:06	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/09/23 23:06	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/09/23 23:06	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/09/23 23:06	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/09/23 23:06	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/09/23 23:06	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/09/23 23:06	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/09/23 23:06	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/09/23 23:06	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/09/23 23:06	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/09/23 23:06	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/09/23 23:06	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/09/23 23:06	1
Acetone	<3.07	U	100	3.07	ug/L			11/09/23 23:06	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/09/23 23:06	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/09/23 23:06	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/09/23 23:06	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/09/23 23:06	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/09/23 23:06	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/09/23 23:06	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-6

Lab Sample ID: 860-61041-7

Date Collected: 11/08/23 13:19

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<0.633	U	5.00	0.633	ug/L			11/09/23 23:06	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/09/23 23:06	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/09/23 23:06	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/09/23 23:06	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/09/23 23:06	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/09/23 23:06	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/09/23 23:06	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/09/23 23:06	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/09/23 23:06	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/09/23 23:06	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/09/23 23:06	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/09/23 23:06	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/09/23 23:06	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/09/23 23:06	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/09/23 23:06	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/09/23 23:06	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/09/23 23:06	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/09/23 23:06	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/09/23 23:06	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/09/23 23:06	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/09/23 23:06	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/09/23 23:06	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/09/23 23:06	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/09/23 23:06	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/09/23 23:06	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/09/23 23:06	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/09/23 23:06	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/09/23 23:06	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/09/23 23:06	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/09/23 23:06	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/09/23 23:06	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/09/23 23:06	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/09/23 23:06	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/09/23 23:06	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/09/23 23:06	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/09/23 23:06	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/09/23 23:06	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/09/23 23:06	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/09/23 23:06	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/09/23 23:06	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/09/23 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		11/09/23 23:06	1
4-Bromofluorobenzene (Surr)	94		74 - 124		11/09/23 23:06	1
Dibromofluoromethane (Surr)	103		75 - 131		11/09/23 23:06	1
Toluene-d8 (Surr)	98		80 - 120		11/09/23 23:06	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-6

Lab Sample ID: 860-61041-7

Date Collected: 11/08/23 13:19

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/10/23 10:32	11/17/23 23:44	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/10/23 10:32	11/17/23 23:44	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/10/23 10:32	11/17/23 23:44	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/10/23 10:32	11/17/23 23:44	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/10/23 10:32	11/17/23 23:44	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/10/23 10:32	11/17/23 23:44	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/10/23 10:32	11/17/23 23:44	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/10/23 10:32	11/17/23 23:44	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/10/23 10:32	11/17/23 23:44	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/10/23 10:32	11/17/23 23:44	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/10/23 10:32	11/17/23 23:44	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/10/23 10:32	11/17/23 23:44	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/10/23 10:32	11/17/23 23:44	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/10/23 10:32	11/17/23 23:44	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/10/23 10:32	11/17/23 23:44	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/17/23 23:44	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/10/23 10:32	11/17/23 23:44	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/10/23 10:32	11/17/23 23:44	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/17/23 23:44	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/10/23 10:32	11/17/23 23:44	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/10/23 10:32	11/17/23 23:44	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/10/23 10:32	11/17/23 23:44	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/10/23 10:32	11/17/23 23:44	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/10/23 10:32	11/17/23 23:44	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/17/23 23:44	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/10/23 10:32	11/17/23 23:44	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/10/23 10:32	11/17/23 23:44	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/10/23 10:32	11/17/23 23:44	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/10/23 10:32	11/17/23 23:44	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/10/23 10:32	11/17/23 23:44	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/10/23 10:32	11/17/23 23:44	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/10/23 10:32	11/17/23 23:44	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/10/23 10:32	11/17/23 23:44	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/10/23 10:32	11/17/23 23:44	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/10/23 10:32	11/17/23 23:44	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/10/23 10:32	11/17/23 23:44	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/10/23 10:32	11/17/23 23:44	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/10/23 10:32	11/17/23 23:44	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/10/23 10:32	11/17/23 23:44	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/10/23 10:32	11/17/23 23:44	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/10/23 10:32	11/17/23 23:44	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/10/23 10:32	11/17/23 23:44	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/10/23 10:32	11/17/23 23:44	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/10/23 10:32	11/17/23 23:44	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/10/23 10:32	11/17/23 23:44	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/10/23 10:32	11/17/23 23:44	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/10/23 10:32	11/17/23 23:44	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/10/23 10:32	11/17/23 23:44	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/10/23 10:32	11/17/23 23:44	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-6

Lab Sample ID: 860-61041-7

Date Collected: 11/08/23 13:19

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.154	U	2.00	0.154	ug/L		11/10/23 10:32	11/17/23 23:44	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/10/23 10:32	11/17/23 23:44	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/10/23 10:32	11/17/23 23:44	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/17/23 23:44	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/10/23 10:32	11/17/23 23:44	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/10/23 10:32	11/17/23 23:44	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/10/23 10:32	11/17/23 23:44	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/10/23 10:32	11/17/23 23:44	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/10/23 10:32	11/17/23 23:44	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/10/23 10:32	11/17/23 23:44	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/10/23 10:32	11/17/23 23:44	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/10/23 10:32	11/17/23 23:44	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/17/23 23:44	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/10/23 10:32	11/17/23 23:44	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/17/23 23:44	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/10/23 10:32	11/17/23 23:44	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/10/23 10:32	11/17/23 23:44	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/10/23 10:32	11/17/23 23:44	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/10/23 10:32	11/17/23 23:44	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/10/23 10:32	11/17/23 23:44	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/10/23 10:32	11/17/23 23:44	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/10/23 10:32	11/17/23 23:44	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/10/23 10:32	11/17/23 23:44	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/10/23 10:32	11/17/23 23:44	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/10/23 10:32	11/17/23 23:44	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/10/23 10:32	11/17/23 23:44	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/10/23 10:32	11/17/23 23:44	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/17/23 23:44	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/10/23 10:32	11/17/23 23:44	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/17/23 23:44	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/10/23 10:32	11/17/23 23:44	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/10/23 10:32	11/17/23 23:44	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/10/23 10:32	11/17/23 23:44	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/10/23 10:32	11/17/23 23:44	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/10/23 10:32	11/17/23 23:44	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/10/23 10:32	11/17/23 23:44	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/10/23 10:32	11/17/23 23:44	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/10/23 10:32	11/17/23 23:44	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/10/23 10:32	11/17/23 23:44	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/10/23 10:32	11/17/23 23:44	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/10/23 10:32	11/17/23 23:44	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/10/23 10:32	11/17/23 23:44	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/10/23 10:32	11/17/23 23:44	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/10/23 10:32	11/17/23 23:44	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/17/23 23:44	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/10/23 10:32	11/17/23 23:44	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/10/23 10:32	11/17/23 23:44	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/10/23 10:32	11/17/23 23:44	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/10/23 10:32	11/17/23 23:44	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-6

Lab Sample ID: 860-61041-7

Date Collected: 11/08/23 13:19

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/10/23 10:32	11/17/23 23:44	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/10/23 10:32	11/17/23 23:44	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/10/23 10:32	11/17/23 23:44	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/10/23 10:32	11/17/23 23:44	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/10/23 10:32	11/17/23 23:44	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/10/23 10:32	11/17/23 23:44	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/10/23 10:32	11/17/23 23:44	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/10/23 10:32	11/17/23 23:44	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/10/23 10:32	11/17/23 23:44	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/10/23 10:32	11/17/23 23:44	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/10/23 10:32	11/17/23 23:44	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/10/23 10:32	11/17/23 23:44	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/10/23 10:32	11/17/23 23:44	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/10/23 10:32	11/17/23 23:44	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/17/23 23:44	1
Pyridine	<0.725	U *	2.00	0.725	ug/L		11/10/23 10:32	11/17/23 23:44	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/10/23 10:32	11/17/23 23:44	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/10/23 10:32	11/17/23 23:44	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/10/23 10:32	11/17/23 23:44	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/10/23 10:32	11/17/23 23:44	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/10/23 10:32	11/17/23 23:44	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/10/23 10:32	11/17/23 23:44	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/10/23 10:32	11/17/23 23:44	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/10/23 10:32	11/17/23 23:44	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/10/23 10:32	11/17/23 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		31 - 132	11/10/23 10:32	11/17/23 23:44	1
2-Fluorobiphenyl	72		40 - 130	11/10/23 10:32	11/17/23 23:44	1
2-Fluorophenol (Surr)	41		21 - 114	11/10/23 10:32	11/17/23 23:44	1
Nitrobenzene-d5 (Surr)	60		37 - 130	11/10/23 10:32	11/17/23 23:44	1
Phenol-d5 (Surr)	27		16 - 117	11/10/23 10:32	11/17/23 23:44	1
p-Terphenyl-d14	110		20 - 141	11/10/23 10:32	11/17/23 23:44	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.166	U	0.631	0.166	ug/L		11/10/23 06:40	11/16/23 11:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	131		37 - 133	11/10/23 06:40	11/16/23 11:11	1

Client Sample ID: MW-9

Lab Sample ID: 860-61041-8

Date Collected: 11/08/23 14:45

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/09/23 23:26	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/09/23 23:26	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/09/23 23:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/09/23 23:26	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-9

Lab Sample ID: 860-61041-8

Date Collected: 11/08/23 14:45

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/09/23 23:26	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/09/23 23:26	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/09/23 23:26	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/09/23 23:26	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/09/23 23:26	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/09/23 23:26	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/09/23 23:26	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/09/23 23:26	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/09/23 23:26	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/09/23 23:26	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/09/23 23:26	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/09/23 23:26	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/09/23 23:26	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/09/23 23:26	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/09/23 23:26	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/09/23 23:26	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/09/23 23:26	1
Acetone	<3.07	U	100	3.07	ug/L			11/09/23 23:26	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/09/23 23:26	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/09/23 23:26	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/09/23 23:26	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/09/23 23:26	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/09/23 23:26	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/09/23 23:26	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/09/23 23:26	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/09/23 23:26	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/09/23 23:26	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/09/23 23:26	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/09/23 23:26	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/09/23 23:26	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/09/23 23:26	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/09/23 23:26	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/09/23 23:26	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/09/23 23:26	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/09/23 23:26	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/09/23 23:26	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/09/23 23:26	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/09/23 23:26	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/09/23 23:26	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/09/23 23:26	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/09/23 23:26	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/09/23 23:26	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/09/23 23:26	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/09/23 23:26	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/09/23 23:26	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/09/23 23:26	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/09/23 23:26	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/09/23 23:26	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/09/23 23:26	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-9

Lab Sample ID: 860-61041-8

Date Collected: 11/08/23 14:45

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/09/23 23:26	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/09/23 23:26	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/09/23 23:26	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/09/23 23:26	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/09/23 23:26	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/09/23 23:26	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/09/23 23:26	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/09/23 23:26	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/09/23 23:26	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/09/23 23:26	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/09/23 23:26	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/09/23 23:26	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/09/23 23:26	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/09/23 23:26	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/09/23 23:26	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/09/23 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		11/09/23 23:26	1
4-Bromofluorobenzene (Surr)	94		74 - 124		11/09/23 23:26	1
Dibromofluoromethane (Surr)	104		75 - 131		11/09/23 23:26	1
Toluene-d8 (Surr)	96		80 - 120		11/09/23 23:26	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/10/23 10:33	11/18/23 00:05	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/10/23 10:33	11/18/23 00:05	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/10/23 10:33	11/18/23 00:05	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/10/23 10:33	11/18/23 00:05	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/10/23 10:33	11/18/23 00:05	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/10/23 10:33	11/18/23 00:05	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/10/23 10:33	11/18/23 00:05	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/10/23 10:33	11/18/23 00:05	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/10/23 10:33	11/18/23 00:05	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/10/23 10:33	11/18/23 00:05	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/10/23 10:33	11/18/23 00:05	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/10/23 10:33	11/18/23 00:05	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/10/23 10:33	11/18/23 00:05	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/10/23 10:33	11/18/23 00:05	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/10/23 10:33	11/18/23 00:05	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/10/23 10:33	11/18/23 00:05	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/10/23 10:33	11/18/23 00:05	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/10/23 10:33	11/18/23 00:05	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/10/23 10:33	11/18/23 00:05	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/10/23 10:33	11/18/23 00:05	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/10/23 10:33	11/18/23 00:05	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/10/23 10:33	11/18/23 00:05	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/10/23 10:33	11/18/23 00:05	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/10/23 10:33	11/18/23 00:05	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/10/23 10:33	11/18/23 00:05	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-9

Lab Sample ID: 860-61041-8

Date Collected: 11/08/23 14:45

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/10/23 10:33	11/18/23 00:05	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/10/23 10:33	11/18/23 00:05	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/10/23 10:33	11/18/23 00:05	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/10/23 10:33	11/18/23 00:05	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/10/23 10:33	11/18/23 00:05	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/10/23 10:33	11/18/23 00:05	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/10/23 10:33	11/18/23 00:05	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/10/23 10:33	11/18/23 00:05	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/10/23 10:33	11/18/23 00:05	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/10/23 10:33	11/18/23 00:05	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/10/23 10:33	11/18/23 00:05	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/10/23 10:33	11/18/23 00:05	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/10/23 10:33	11/18/23 00:05	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/10/23 10:33	11/18/23 00:05	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/10/23 10:33	11/18/23 00:05	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/10/23 10:33	11/18/23 00:05	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/10/23 10:33	11/18/23 00:05	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/10/23 10:33	11/18/23 00:05	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/10/23 10:33	11/18/23 00:05	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/10/23 10:33	11/18/23 00:05	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/10/23 10:33	11/18/23 00:05	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/10/23 10:33	11/18/23 00:05	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/10/23 10:33	11/18/23 00:05	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/10/23 10:33	11/18/23 00:05	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/10/23 10:33	11/18/23 00:05	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/10/23 10:33	11/18/23 00:05	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/10/23 10:33	11/18/23 00:05	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:33	11/18/23 00:05	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/10/23 10:33	11/18/23 00:05	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/10/23 10:33	11/18/23 00:05	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/10/23 10:33	11/18/23 00:05	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/10/23 10:33	11/18/23 00:05	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/10/23 10:33	11/18/23 00:05	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/10/23 10:33	11/18/23 00:05	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/10/23 10:33	11/18/23 00:05	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/10/23 10:33	11/18/23 00:05	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:33	11/18/23 00:05	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/10/23 10:33	11/18/23 00:05	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:33	11/18/23 00:05	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/10/23 10:33	11/18/23 00:05	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/10/23 10:33	11/18/23 00:05	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/10/23 10:33	11/18/23 00:05	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/10/23 10:33	11/18/23 00:05	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/10/23 10:33	11/18/23 00:05	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/10/23 10:33	11/18/23 00:05	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/10/23 10:33	11/18/23 00:05	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/10/23 10:33	11/18/23 00:05	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/10/23 10:33	11/18/23 00:05	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/10/23 10:33	11/18/23 00:05	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-9

Lab Sample ID: 860-61041-8

Date Collected: 11/08/23 14:45

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/10/23 10:33	11/18/23 00:05	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/10/23 10:33	11/18/23 00:05	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:33	11/18/23 00:05	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/10/23 10:33	11/18/23 00:05	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/10/23 10:33	11/18/23 00:05	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/10/23 10:33	11/18/23 00:05	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/10/23 10:33	11/18/23 00:05	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/10/23 10:33	11/18/23 00:05	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/10/23 10:33	11/18/23 00:05	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/10/23 10:33	11/18/23 00:05	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/10/23 10:33	11/18/23 00:05	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/10/23 10:33	11/18/23 00:05	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/10/23 10:33	11/18/23 00:05	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/10/23 10:33	11/18/23 00:05	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/10/23 10:33	11/18/23 00:05	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/10/23 10:33	11/18/23 00:05	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/10/23 10:33	11/18/23 00:05	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/10/23 10:33	11/18/23 00:05	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/10/23 10:33	11/18/23 00:05	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/10/23 10:33	11/18/23 00:05	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/10/23 10:33	11/18/23 00:05	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/10/23 10:33	11/18/23 00:05	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/10/23 10:33	11/18/23 00:05	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/10/23 10:33	11/18/23 00:05	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/10/23 10:33	11/18/23 00:05	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/10/23 10:33	11/18/23 00:05	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/10/23 10:33	11/18/23 00:05	1
o,o',o"-Triethylphosphorothioate	0.488	J	8.00	0.0579	ug/L		11/10/23 10:33	11/18/23 00:05	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/10/23 10:33	11/18/23 00:05	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/10/23 10:33	11/18/23 00:05	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/10/23 10:33	11/18/23 00:05	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/10/23 10:33	11/18/23 00:05	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/10/23 10:33	11/18/23 00:05	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/10/23 10:33	11/18/23 00:05	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/10/23 10:33	11/18/23 00:05	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/10/23 10:33	11/18/23 00:05	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/10/23 10:33	11/18/23 00:05	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/10/23 10:33	11/18/23 00:05	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:33	11/18/23 00:05	1
Pyridine	<0.725	U *	2.00	0.725	ug/L		11/10/23 10:33	11/18/23 00:05	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/10/23 10:33	11/18/23 00:05	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/10/23 10:33	11/18/23 00:05	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/10/23 10:33	11/18/23 00:05	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/10/23 10:33	11/18/23 00:05	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/10/23 10:33	11/18/23 00:05	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/10/23 10:33	11/18/23 00:05	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/10/23 10:33	11/18/23 00:05	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/10/23 10:33	11/18/23 00:05	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/10/23 10:33	11/18/23 00:05	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-9

Lab Sample ID: 860-61041-8

Date Collected: 11/08/23 14:45

Matrix: Water

Date Received: 11/09/23 09:56

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	59		31 - 132	11/10/23 10:33	11/18/23 00:05	1
2-Fluorobiphenyl	50		40 - 130	11/10/23 10:33	11/18/23 00:05	1
2-Fluorophenol (Surr)	30		21 - 114	11/10/23 10:33	11/18/23 00:05	1
Nitrobenzene-d5 (Surr)	41		37 - 130	11/10/23 10:33	11/18/23 00:05	1
Phenol-d5 (Surr)	19		16 - 117	11/10/23 10:33	11/18/23 00:05	1
p-Terphenyl-d14	101		20 - 141	11/10/23 10:33	11/18/23 00:05	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	15.0		0.612	0.161	ug/L		11/10/23 06:40	11/16/23 11:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	127		37 - 133				11/10/23 06:40	11/16/23 11:41	1

Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-61041-1	MW-24	106	97	102	99
860-61041-2	MW-20	98	98	99	98
860-61041-2 - RA	MW-20	104	101	97	101
860-61041-3	MW-22	97	96	98	98
860-61041-3 - RA	MW-22	102	97	98	101
860-61041-4	MW-19	97	98	97	98
860-61041-4 - RA	MW-19	105	96	97	100
860-61041-5	TB-03 (110723)	108	95	103	97
860-61041-6	MW-18	107	94	106	98
860-61041-6 MS	MW-18	100	96	98	100
860-61041-6 MSD	MW-18	98	95	99	97
860-61041-7	MW-6	106	94	103	98
860-61041-8	MW-9	107	94	104	96
860-61116-G-2 MS	Matrix Spike	94	98	100	97
860-61260-H-2 MS	Matrix Spike	99	101	99	100
LCS 860-130327/3	Lab Control Sample	97	101	98	101
LCS 860-130585/3	Lab Control Sample	92	98	98	98
LCS 860-130880/3	Lab Control Sample	99	101	101	100
LCSD 860-130327/4	Lab Control Sample Dup	99	100	101	100
LCSD 860-130585/4	Lab Control Sample Dup	94	98	98	98
LCSD 860-130880/4	Lab Control Sample Dup	98	102	100	100
MB 860-130327/10	Method Blank	106	95	101	99
MB 860-130585/10	Method Blank	98	99	101	99
MB 860-130880/9	Method Blank	101	100	96	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	2FP (19-120)	FBP (43-130)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-61041-1	MW-24				123		
860-61041-2	MW-20				142 S1+		
860-61041-3	MW-22				122		
860-61041-4	MW-19				157 S1+		
860-61041-6	MW-18				149 S1+		
860-61041-6 MS	MW-18	150 S1+	81	98	125	53	87
860-61041-6 MSD	MW-18	170 S1+	81	99	138 S1+	48	98
860-61041-7	MW-6				131		
860-61041-8	MW-9				127		
LCS 860-130405/2-A	Lab Control Sample	106	61	122	144 S1+	48	93
LCSD 860-130405/3-A	Lab Control Sample Dup	110	59	109	127	45	83
MB 860-130405/1-A	Method Blank	99	48	124	137 S1+	35	102

Surrogate Legend

Eurofins Houston

Surrogate Summary

Client: Ashland LLC

Job ID: 860-61041-1

Project/Site: Hercules Hattiesburg, MS

TBP = 2,4,6-Tribromophenol (Surr)

2FP = 2-Fluorophenol (Surr)

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (31-132)	FBP (40-130)	2FP (21-114)	NBZ (37-130)	PHL (16-117)	TPHd14 (20-141)
860-61041-1	MW-24	83	65	38	55	26	106
860-61041-2	MW-20	70	59	33	44	21	99
860-61041-2 - DL	MW-20	0 S1-	88	0 S1-	65	0 S1-	101
860-61041-3	MW-22	99	108	53	70	36	127
860-61041-3 - DL	MW-22	0 S1-	129	0 S1-	0 S1-	0 S1-	124
860-61041-4	MW-19	73	59	29	49	21	112
860-61041-4 - DL	MW-19	0 S1-	60	0 S1-	0 S1-	0 S1-	0 S1-
860-61041-6	MW-18	87	79	36	56	28	100
860-61041-6 - DL	MW-18	60	75	22	53	25	99
860-61041-6	MW-18	86	73	33	50	24	108
860-61041-6 MS	MW-18	115	86	54	77	40	126
860-61041-6 MS - DL	MW-18	69	68	42	63	27	102
860-61041-6 MSD	MW-18	96	73	40	59	29	99
860-61041-6 MSD - DL	MW-18	64	64	33	46	20	105
860-61041-7	MW-6	86	72	41	60	27	110
860-61041-8	MW-9	59	50	30	41	19	101
LCS 860-130473/2-A	Lab Control Sample	65	64	49	66	37	106
LCSD 860-130473/3-A	Lab Control Sample Dup	78	71	53	71	40	108
MB 860-130473/1-A	Method Blank	37	49	34	48	25	93

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-130327/10

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/09/23 21:02	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/09/23 21:02	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/09/23 21:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/09/23 21:02	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/09/23 21:02	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/09/23 21:02	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/09/23 21:02	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/09/23 21:02	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/09/23 21:02	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/09/23 21:02	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/09/23 21:02	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/09/23 21:02	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/09/23 21:02	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/09/23 21:02	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/09/23 21:02	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/09/23 21:02	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/09/23 21:02	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/09/23 21:02	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/09/23 21:02	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/09/23 21:02	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/09/23 21:02	1
Acetone	<3.07	U	100	3.07	ug/L			11/09/23 21:02	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/09/23 21:02	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/09/23 21:02	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/09/23 21:02	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/09/23 21:02	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/09/23 21:02	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/09/23 21:02	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/09/23 21:02	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/09/23 21:02	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/09/23 21:02	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/09/23 21:02	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/09/23 21:02	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/09/23 21:02	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/09/23 21:02	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/09/23 21:02	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/09/23 21:02	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/09/23 21:02	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/09/23 21:02	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/09/23 21:02	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/09/23 21:02	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/09/23 21:02	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/09/23 21:02	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/09/23 21:02	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/09/23 21:02	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/09/23 21:02	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/09/23 21:02	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/09/23 21:02	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130327/10

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/09/23 21:02	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/09/23 21:02	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/09/23 21:02	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/09/23 21:02	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/09/23 21:02	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/09/23 21:02	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/09/23 21:02	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/09/23 21:02	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/09/23 21:02	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/09/23 21:02	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/09/23 21:02	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/09/23 21:02	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/09/23 21:02	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/09/23 21:02	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/09/23 21:02	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/09/23 21:02	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/09/23 21:02	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/09/23 21:02	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/09/23 21:02	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/09/23 21:02	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/09/23 21:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		11/09/23 21:02	1
4-Bromofluorobenzene (Surr)	95		74 - 124		11/09/23 21:02	1
Dibromofluoromethane (Surr)	101		75 - 131		11/09/23 21:02	1
Toluene-d8 (Surr)	99		80 - 120		11/09/23 21:02	1

Lab Sample ID: LCS 860-130327/3

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	51.05		ug/L		102	72 - 125
1,1,1-Trichloroethane	50.0	50.04		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.76		ug/L		108	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.93		ug/L		98	60 - 140
1,1,2-Trichloroethane	50.0	51.66		ug/L		103	70 - 130
1,1-Dichloroethane	50.0	48.46		ug/L		97	70 - 130
1,1-Dichloroethene	50.0	48.26		ug/L		97	50 - 150
1,2,3-Trichloropropane	50.0	52.35		ug/L		105	75 - 125
1,2,4-Trimethylbenzene	50.0	56.20		ug/L		112	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	51.95		ug/L		104	59 - 125
1,2-Dibromoethane	50.0	52.53		ug/L		105	73 - 125
1,2-Dichloroethane	50.0	51.05		ug/L		102	72 - 130
1,2-Dichloropropane	50.0	51.54		ug/L		103	74 - 125
1,3,5-Trimethylbenzene	50.0	54.86		ug/L		110	60 - 140
1,3-Butadiene	50.0	43.54		ug/L		87	60 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130327/3

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	50.04		ug/L		100	70 - 130
2-Butanone (MEK)	250	245.8		ug/L		98	60 - 140
2-Hexanone (MBK)	250	261.8		ug/L		105	60 - 140
2-Propanol	500	488.7		ug/L		98	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	44.12		ug/L		88	70 - 130
4-Methyl-2-pentanone	250	261.5		ug/L		105	60 - 140
Acetone	250	206.2		ug/L		82	60 - 140
Acetonitrile	500	471.3		ug/L		94	60 - 140
Acrolein	250	237.5		ug/L		95	60 - 140
Acrylonitrile	500	463.9		ug/L		93	60 - 140
alpha-Chlorotoluene	50.0	48.60		ug/L		97	75 - 125
Benzene	50.0	50.53		ug/L		101	75 - 125
Bromodichloromethane	50.0	50.47		ug/L		101	75 - 125
Bromoform	50.0	49.39		ug/L		99	70 - 130
Bromomethane	50.0	45.52		ug/L		91	60 - 140
Carbon disulfide	50.0	44.99		ug/L		90	60 - 140
Carbon tetrachloride	50.0	50.81		ug/L		102	70 - 130
Chlorobenzene	50.0	52.39		ug/L		105	65 - 135
Chlorodibromomethane	50.0	50.64		ug/L		101	73 - 125
Chloroethane	50.0	46.26		ug/L		93	60 - 140
Chloroform	50.0	50.84		ug/L		102	70 - 121
Chloromethane	50.0	41.49		ug/L		83	60 - 140
Chloroprene	50.0	47.47		ug/L		95	70 - 130
cis-1,2-Dichloroethene	50.0	49.98		ug/L		100	75 - 125
cis-1,3-Dichloropropene	50.0	51.42		ug/L		103	74 - 125
Cumene (isopropylbenzene)	50.0	54.39		ug/L		109	75 - 125
Cyclohexane	50.0	46.59		ug/L		93	70 - 130
Dibromomethane	50.0	52.36		ug/L		105	69 - 127
Dichlorodifluoromethane	50.0	38.70		ug/L		77	50 - 150
Ethyl methacrylate	50.0	52.22		ug/L		104	70 - 130
Ethylbenzene	50.0	53.06		ug/L		106	75 - 125
Hexane	50.0	46.07		ug/L		92	72 - 125
Iodomethane	50.0	48.56		ug/L		97	75 - 125
Isobutanol	1240	1343		ug/L		108	60 - 140
Methacrylonitrile	500	498.1		ug/L		100	70 - 130
Methyl methacrylate	100	104.1		ug/L		104	70 - 130
Methyl tert-butyl ether	50.0	49.03		ug/L		98	65 - 135
Methylene Chloride	50.0	44.50		ug/L		89	71 - 125
Propionitrile	500	502.2		ug/L		100	70 - 130
Propylbenzene	50.0	55.05		ug/L		110	75 - 125
Styrene	50.0	55.92		ug/L		112	75 - 125
Tetrachloroethene	50.0	50.58		ug/L		101	71 - 125
Tetrahydrofuran	100	93.79		ug/L		94	75 - 125
Toluene	50.0	51.13		ug/L		102	70 - 130
trans-1,2-Dichloroethene	50.0	49.63		ug/L		99	75 - 125
trans-1,3-Dichloropropene	50.0	51.51		ug/L		103	66 - 125
trans-1,4-Dichloro-2-butene	50.0	53.55		ug/L		107	70 - 130
Trichloroethene	50.0	50.43		ug/L		101	75 - 135
Trichlorofluoromethane	50.0	46.28		ug/L		93	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130327/3

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	243.6		ug/L		97	60 - 140
Vinyl chloride	50.0	44.45		ug/L		89	60 - 140
Xylenes, Total	100	107.3		ug/L		107	75 - 125
o-Xylene	50.0	53.41		ug/L		107	75 - 125
m,p-Xylenes	50.0	53.92		ug/L		108	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LCSD 860-130327/4

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	50.84		ug/L		102	72 - 125	0	25
1,1,1-Trichloroethane	50.0	50.43		ug/L		101	70 - 130	1	25
1,1,2,2-Tetrachloroethane	50.0	53.59		ug/L		107	74 - 125	0	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.08		ug/L		92	60 - 140	6	25
1,1,2-Trichloroethane	50.0	52.24		ug/L		104	70 - 130	1	25
1,1-Dichloroethane	50.0	46.44		ug/L		93	70 - 130	4	25
1,1-Dichloroethene	50.0	48.92		ug/L		98	50 - 150	1	25
1,2,3-Trichloropropane	50.0	53.71		ug/L		107	75 - 125	3	25
1,2,4-Trimethylbenzene	50.0	55.00		ug/L		110	75 - 125	2	25
1,2-Dibromo-3-Chloropropane	50.0	51.70		ug/L		103	59 - 125	0	25
1,2-Dibromoethane	50.0	53.07		ug/L		106	73 - 125	1	25
1,2-Dichloroethane	50.0	51.63		ug/L		103	72 - 130	1	25
1,2-Dichloropropane	50.0	51.82		ug/L		104	74 - 125	1	25
1,3,5-Trimethylbenzene	50.0	53.26		ug/L		107	60 - 140	3	25
1,3-Butadiene	50.0	43.02		ug/L		86	60 - 150	1	25
2,2,4-Trimethylpentane	50.0	48.01		ug/L		96	70 - 130	4	25
2-Butanone (MEK)	250	252.8		ug/L		101	60 - 140	3	25
2-Hexanone (MBK)	250	270.6		ug/L		108	60 - 140	3	25
2-Propanol	500	544.6		ug/L		109	70 - 120	11	25
3-Chloropropene (Allyl Chloride)	50.0	45.46		ug/L		91	70 - 130	3	25
4-Methyl-2-pentanone	250	271.0		ug/L		108	60 - 140	4	25
Acetone	250	214.9		ug/L		86	60 - 140	4	25
Acetonitrile	500	486.0		ug/L		97	60 - 140	3	25
Acrolein	250	238.2		ug/L		95	60 - 140	0	25
Acrylonitrile	500	476.6		ug/L		95	60 - 140	3	25
alpha-Chlorotoluene	50.0	48.75		ug/L		97	75 - 125	0	25
Benzene	50.0	50.64		ug/L		101	75 - 125	0	25
Bromodichloromethane	50.0	51.18		ug/L		102	75 - 125	1	25
Bromoform	50.0	50.67		ug/L		101	70 - 130	3	25
Bromomethane	50.0	45.72		ug/L		91	60 - 140	0	25
Carbon disulfide	50.0	44.29		ug/L		89	60 - 140	2	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130327/4

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	49.35		ug/L		99	70 - 130	3	25
Chlorobenzene	50.0	52.50		ug/L		105	65 - 135	0	25
Chlorodibromomethane	50.0	50.65		ug/L		101	73 - 125	0	25
Chloroethane	50.0	44.31		ug/L		89	60 - 140	4	25
Chloroform	50.0	51.03		ug/L		102	70 - 121	0	25
Chloromethane	50.0	41.24		ug/L		82	60 - 140	1	25
Chloroprene	50.0	47.32		ug/L		95	70 - 130	0	25
cis-1,2-Dichloroethene	50.0	50.90		ug/L		102	75 - 125	2	25
cis-1,3-Dichloropropene	50.0	52.58		ug/L		105	74 - 125	2	25
Cumene (isopropylbenzene)	50.0	53.74		ug/L		107	75 - 125	1	25
Cyclohexane	50.0	44.67		ug/L		89	70 - 130	4	25
Dibromomethane	50.0	52.83		ug/L		106	69 - 127	1	25
Dichlorodifluoromethane	50.0	35.51		ug/L		71	50 - 150	9	25
Ethyl methacrylate	50.0	52.95		ug/L		106	70 - 130	1	25
Ethylbenzene	50.0	52.70		ug/L		105	75 - 125	1	25
Hexane	50.0	43.05		ug/L		86	72 - 125	7	25
Iodomethane	50.0	48.67		ug/L		97	75 - 125	0	25
Isobutanol	1240	1443		ug/L		116	60 - 140	7	25
Methacrylonitrile	500	508.4		ug/L		102	70 - 130	2	25
Methyl methacrylate	100	106.7		ug/L		107	70 - 130	2	25
Methyl tert-butyl ether	50.0	48.82		ug/L		98	65 - 135	0	25
Methylene Chloride	50.0	44.40		ug/L		89	71 - 125	0	25
Propionitrile	500	514.2		ug/L		103	70 - 130	2	25
Propylbenzene	50.0	53.56		ug/L		107	75 - 125	3	25
Styrene	50.0	55.88		ug/L		112	75 - 125	0	25
Tetrachloroethene	50.0	50.08		ug/L		100	71 - 125	1	25
Tetrahydrofuran	100	102.5		ug/L		103	75 - 125	9	25
Toluene	50.0	51.02		ug/L		102	70 - 130	0	25
trans-1,2-Dichloroethene	50.0	48.09		ug/L		96	75 - 125	3	25
trans-1,3-Dichloropropene	50.0	51.76		ug/L		104	66 - 125	0	25
trans-1,4-Dichloro-2-butene	50.0	53.07		ug/L		106	70 - 130	1	25
Trichloroethene	50.0	50.29		ug/L		101	75 - 135	0	25
Trichlorofluoromethane	50.0	44.28		ug/L		89	60 - 140	4	25
Vinyl acetate	250	243.5		ug/L		97	60 - 140	0	25
Vinyl chloride	50.0	43.60		ug/L		87	60 - 140	2	25
Xylenes, Total	100	107.0		ug/L		107	75 - 125	0	25
o-Xylene	50.0	53.31		ug/L		107	75 - 125	0	25
m,p-Xylenes	50.0	53.67		ug/L		107	75 - 125	0	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	100		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61041-6 MS

Matrix: Water

Analysis Batch: 130327

Client Sample ID: MW-18

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	45.32		ug/L		91	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	44.90		ug/L		90	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	47.97		ug/L		96	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	41.48		ug/L		83	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	47.33		ug/L		95	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	42.08		ug/L		84	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	43.75		ug/L		88	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	47.36		ug/L		95	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	47.33		ug/L		95	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	48.87		ug/L		98	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	47.74		ug/L		95	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	46.61		ug/L		93	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	46.27		ug/L		93	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	46.50		ug/L		93	70 - 125
1,3-Butadiene	<0.568	U	50.0	42.85		ug/L		86	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	43.79		ug/L		88	70 - 130
2-Butanone (MEK)	<8.28	U	250	241.8		ug/L		97	60 - 140
2-Hexanone (MBK)	<7.45	U	250	255.1		ug/L		102	60 - 140
2-Propanol	<5.23	U	500	508.7		ug/L		102	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	44.06		ug/L		88	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	256.9		ug/L		103	60 - 140
Acetone	<3.07	U	250	195.0		ug/L		78	60 - 140
Acetonitrile	<14.6	U	500	463.2		ug/L		93	60 - 140
Acrolein	<11.1	U	250	218.0		ug/L		87	50 - 150
Acrylonitrile	<14.3	U	500	443.5		ug/L		89	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	41.06		ug/L		82	70 - 130
Benzene	<0.460	U	50.0	45.76		ug/L		92	66 - 142
Bromodichloromethane	<0.552	U	50.0	46.33		ug/L		93	75 - 125
Bromoform	<0.633	U	50.0	45.51		ug/L		91	75 - 125
Bromomethane	<1.42	U	50.0	44.07		ug/L		88	60 - 140
Carbon disulfide	<1.65	U	50.0	40.50		ug/L		81	60 - 140
Carbon tetrachloride	<0.896	U	50.0	42.95		ug/L		86	62 - 125
Chlorobenzene	17.9		50.0	63.75		ug/L		92	60 - 133
Chlorodibromomethane	<0.547	U	50.0	45.73		ug/L		91	73 - 125
Chloroethane	<1.98	U	50.0	44.09		ug/L		88	60 - 140
Chloroform	<0.464	U	50.0	45.30		ug/L		91	70 - 130
Chloromethane	<2.04	U	50.0	41.10		ug/L		82	60 - 140
Chloroprene	<0.598	U	50.0	42.52		ug/L		85	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	45.29		ug/L		91	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	47.15		ug/L		94	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	48.80		ug/L		98	75 - 125
Cyclohexane	<1.29	U	50.0	38.98		ug/L		78	70 - 130
Dibromomethane	<0.357	U	50.0	48.28		ug/L		97	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	37.60		ug/L		75	70 - 130
Ethyl methacrylate	<1.12	U	50.0	49.08		ug/L		98	70 - 130
Ethylbenzene	<0.385	U	50.0	46.93		ug/L		94	75 - 125
Hexane	<0.517	U	50.0	38.68		ug/L		77	72 - 125
Iodomethane	<6.52	U	50.0	44.50		ug/L		89	75 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61041-6 MS

Matrix: Water

Analysis Batch: 130327

Client Sample ID: MW-18

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Isobutanol	<17.1	U	1240	1377		ug/L		111	60 - 140
Methacrylonitrile	<2.72	U	500	468.9		ug/L		94	70 - 130
Methyl methacrylate	<2.25	U	100	99.15		ug/L		99	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	45.87		ug/L		92	65 - 135
Methylene Chloride	<1.73	U	50.0	38.25		ug/L		77	75 - 125
Propionitrile	<3.34	U	500	487.4		ug/L		97	70 - 130
Propylbenzene	<0.429	U	50.0	46.92		ug/L		94	75 - 125
Styrene	<0.619	U	50.0	49.69		ug/L		99	75 - 125
Tetrachloroethene	<0.655	U	50.0	44.43		ug/L		89	71 - 125
Tetrahydrofuran	<1.83	U	100	95.28		ug/L		95	75 - 125
Toluene	<0.475	U	50.0	46.21		ug/L		92	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	44.38		ug/L		89	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	46.61		ug/L		93	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	45.30		ug/L		91	70 - 130
Trichloroethene	<0.791	U	50.0	44.64		ug/L		89	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	42.73		ug/L		85	60 - 140
Vinyl acetate	<2.14	U	250	225.2		ug/L		90	60 - 140
Vinyl chloride	<0.428	U	50.0	43.69		ug/L		87	60 - 140
Xylenes, Total	<1.24	U	100	95.38		ug/L		95	75 - 125
o-Xylene	<0.502	U	50.0	47.77		ug/L		96	75 - 125
m,p-Xylenes	<1.24	U	50.0	47.61		ug/L		95	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 860-61041-6 MSD

Matrix: Water

Analysis Batch: 130327

Client Sample ID: MW-18

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	44.20		ug/L		88	72 - 125	2	25
1,1,1-Trichloroethane	<0.585	U	50.0	46.03		ug/L		92	75 - 125	2	25
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	44.65		ug/L		89	74 - 125	7	25
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	41.78		ug/L		84	60 - 140	1	25
1,1,2-Trichloroethane	<0.411	U	50.0	45.48		ug/L		91	75 - 127	4	25
1,1-Dichloroethane	<0.635	U	50.0	44.38		ug/L		89	72 - 125	5	25
1,1-Dichloroethene	<0.738	U	50.0	44.10		ug/L		88	59 - 172	1	25
1,2,3-Trichloropropane	<0.470	U	50.0	44.82		ug/L		90	75 - 125	6	25
1,2,4-Trimethylbenzene	<0.417	U	50.0	45.48		ug/L		91	75 - 125	4	25
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	43.87		ug/L		88	59 - 125	11	25
1,2-Dibromoethane	<0.999	U	50.0	46.43		ug/L		93	73 - 125	3	25
1,2-Dichloroethane	<0.372	U	50.0	46.36		ug/L		93	68 - 127	1	25
1,2-Dichloropropane	<0.556	U	50.0	46.43		ug/L		93	74 - 125	0	25
1,3,5-Trimethylbenzene	<0.411	U	50.0	43.58		ug/L		87	70 - 125	6	25
1,3-Butadiene	<0.568	U	50.0	41.42		ug/L		83	70 - 150	3	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61041-6 MSD

Matrix: Water

Analysis Batch: 130327

Client Sample ID: MW-18

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,2,4-Trimethylpentane	<0.500	U	50.0	44.59		ug/L		89	70 - 130	2	25
2-Butanone (MEK)	<8.28	U	250	232.4		ug/L		93	60 - 140	4	25
2-Hexanone (MBK)	<7.45	U	250	238.6		ug/L		95	60 - 140	7	25
2-Propanol	<5.23	U	500	419.2		ug/L		84	70 - 120	19	25
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	41.95		ug/L		84	70 - 130	5	25
4-Methyl-2-pentanone	<7.49	U	250	248.1		ug/L		99	60 - 140	3	25
Acetone	<3.07	U	250	192.8		ug/L		77	60 - 140	1	25
Acetonitrile	<14.6	U	500	434.9		ug/L		87	60 - 140	6	25
Acrolein	<11.1	U	250	212.7		ug/L		85	50 - 150	2	25
Acrylonitrile	<14.3	U	500	441.5		ug/L		88	50 - 150	0	25
alpha-Chlorotoluene	<2.26	U	50.0	38.14		ug/L		76	70 - 130	7	25
Benzene	<0.460	U	50.0	45.98		ug/L		92	66 - 142	0	25
Bromodichloromethane	<0.552	U	50.0	45.94		ug/L		92	75 - 125	1	25
Bromoform	<0.633	U	50.0	43.08		ug/L		86	75 - 125	5	25
Bromomethane	<1.42	U	50.0	42.29		ug/L		85	60 - 140	4	25
Carbon disulfide	<1.65	U	50.0	41.19		ug/L		82	60 - 140	2	25
Carbon tetrachloride	<0.896	U	50.0	44.67		ug/L		89	62 - 125	4	25
Chlorobenzene	17.9		50.0	62.53		ug/L		89	60 - 133	2	25
Chlorodibromomethane	<0.547	U	50.0	43.81		ug/L		88	73 - 125	4	25
Chloroethane	<1.98	U	50.0	42.11		ug/L		84	60 - 140	5	25
Chloroform	<0.464	U	50.0	45.90		ug/L		92	70 - 130	1	25
Chloromethane	<2.04	U	50.0	40.35		ug/L		81	60 - 140	2	25
Chloroprene	<0.598	U	50.0	42.53		ug/L		85	70 - 130	0	25
cis-1,2-Dichloroethene	<0.457	U	50.0	46.24		ug/L		92	75 - 125	2	25
cis-1,3-Dichloropropene	<1.07	U	50.0	46.68		ug/L		93	74 - 125	1	25
Cumene (isopropylbenzene)	<0.592	U	50.0	47.02		ug/L		94	75 - 125	4	25
Cyclohexane	<1.29	U	50.0	41.15		ug/L		82	70 - 130	5	25
Dibromomethane	<0.357	U	50.0	47.67		ug/L		95	69 - 127	1	25
Dichlorodifluoromethane	<0.785	U	50.0	37.46		ug/L		75	70 - 130	0	25
Ethyl methacrylate	<1.12	U	50.0	47.44		ug/L		95	70 - 130	3	25
Ethylbenzene	<0.385	U	50.0	45.61		ug/L		91	75 - 125	3	25
Hexane	<0.517	U	50.0	40.37		ug/L		81	72 - 125	4	25
Iodomethane	<6.52	U	50.0	45.13		ug/L		90	75 - 125	1	25
Isobutanol	<17.1	U	1250	1174		ug/L		94	60 - 140	16	25
Methacrylonitrile	<2.72	U	500	467.0		ug/L		93	70 - 130	0	25
Methyl methacrylate	<2.25	U	100	97.16		ug/L		97	70 - 130	2	25
Methyl tert-butyl ether	<1.39	U	50.0	46.39		ug/L		93	65 - 135	1	25
Methylene Chloride	<1.73	U	50.0	38.48		ug/L		77	75 - 125	1	25
Propionitrile	<3.34	U	500	468.1		ug/L		94	70 - 130	4	25
Propylbenzene	<0.429	U	50.0	44.29		ug/L		89	75 - 125	6	25
Styrene	<0.619	U	50.0	48.19		ug/L		96	75 - 125	3	25
Tetrachloroethene	<0.655	U	50.0	43.69		ug/L		87	71 - 125	2	25
Tetrahydrofuran	<1.83	U	100	92.01		ug/L		92	75 - 125	3	25
Toluene	<0.475	U	50.0	44.79		ug/L		90	59 - 139	3	25
trans-1,2-Dichloroethene	<0.368	U	50.0	44.55		ug/L		89	75 - 125	0	25
trans-1,3-Dichloropropene	<1.27	U	50.0	45.37		ug/L		91	66 - 125	3	25
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	42.29		ug/L		85	70 - 130	7	25
Trichloroethene	<0.791	U	50.0	44.78		ug/L		90	62 - 137	0	25
Trichlorofluoromethane	<0.560	U	50.0	42.31		ug/L		85	60 - 140	1	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61041-6 MSD

Matrix: Water

Analysis Batch: 130327

Client Sample ID: MW-18

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl acetate	<2.14	U	250	226.5		ug/L		91	60 - 140	1	25
Vinyl chloride	<0.428	U	50.0	41.99		ug/L		84	60 - 140	4	25
Xylenes, Total	<1.24	U	100	92.83		ug/L		93	75 - 125	3	25
o-Xylene	<0.502	U	50.0	46.03		ug/L		92	75 - 125	4	25
m,p-Xylenes	<1.24	U	50.0	46.80		ug/L		94	75 - 125	2	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
4-Bromofluorobenzene (Surr)	95		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: MB 860-130585/10

Matrix: Water

Analysis Batch: 130585

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/11/23 10:13	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/11/23 10:13	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/11/23 10:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/11/23 10:13	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/11/23 10:13	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/11/23 10:13	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/11/23 10:13	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/11/23 10:13	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/11/23 10:13	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/11/23 10:13	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/11/23 10:13	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/11/23 10:13	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/11/23 10:13	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/11/23 10:13	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/11/23 10:13	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/11/23 10:13	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/11/23 10:13	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/11/23 10:13	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/11/23 10:13	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/11/23 10:13	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/11/23 10:13	1
Acetone	<3.07	U	100	3.07	ug/L			11/11/23 10:13	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/11/23 10:13	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/11/23 10:13	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/11/23 10:13	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/11/23 10:13	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/11/23 10:13	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/11/23 10:13	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/11/23 10:13	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/11/23 10:13	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/11/23 10:13	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130585/10

Matrix: Water

Analysis Batch: 130585

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/11/23 10:13	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/11/23 10:13	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/11/23 10:13	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/11/23 10:13	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/11/23 10:13	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/11/23 10:13	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/11/23 10:13	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/11/23 10:13	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/11/23 10:13	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/11/23 10:13	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/11/23 10:13	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/11/23 10:13	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/11/23 10:13	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/11/23 10:13	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/11/23 10:13	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/11/23 10:13	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/11/23 10:13	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/11/23 10:13	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/11/23 10:13	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/11/23 10:13	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/11/23 10:13	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/11/23 10:13	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/11/23 10:13	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/11/23 10:13	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/11/23 10:13	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/11/23 10:13	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/11/23 10:13	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/11/23 10:13	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/11/23 10:13	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/11/23 10:13	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/11/23 10:13	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/11/23 10:13	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/11/23 10:13	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/11/23 10:13	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/11/23 10:13	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/11/23 10:13	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/11/23 10:13	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/11/23 10:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		11/11/23 10:13	1
4-Bromofluorobenzene (Surr)	99		74 - 124		11/11/23 10:13	1
Dibromofluoromethane (Surr)	101		75 - 131		11/11/23 10:13	1
Toluene-d8 (Surr)	99		80 - 120		11/11/23 10:13	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130585/3

Matrix: Water

Analysis Batch: 130585

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	49.12		ug/L		98	72 - 125
1,1,1-Trichloroethane	50.0	45.30		ug/L		91	70 - 130
1,1,2,2-Tetrachloroethane	50.0	45.47		ug/L		91	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	38.73		ug/L		77	60 - 140
1,1,2-Trichloroethane	50.0	49.00		ug/L		98	70 - 130
1,1-Dichloroethane	50.0	46.14		ug/L		92	70 - 130
1,1-Dichloroethene	50.0	43.03		ug/L		86	50 - 150
1,2,3-Trichloropropane	50.0	45.89		ug/L		92	75 - 125
1,2,4-Trimethylbenzene	50.0	47.54		ug/L		95	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	53.48		ug/L		107	59 - 125
1,2-Dibromoethane	50.0	50.56		ug/L		101	73 - 125
1,2-Dichloroethane	50.0	47.49		ug/L		95	72 - 130
1,2-Dichloropropane	50.0	47.71		ug/L		95	74 - 125
1,3,5-Trimethylbenzene	50.0	47.78		ug/L		96	60 - 140
1,3-Butadiene	50.0	42.49		ug/L		85	60 - 150
2-Butanone (MEK)	250	231.9		ug/L		93	60 - 140
2-Hexanone (MBK)	250	228.7		ug/L		91	60 - 140
2-Propanol	500	410.1		ug/L		82	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	39.08		ug/L		78	70 - 130
4-Methyl-2-pentanone	250	229.2		ug/L		92	60 - 140
Acetone	250	224.4		ug/L		90	60 - 140
Acetonitrile	500	392.3		ug/L		78	60 - 140
Acrolein	250	199.8		ug/L		80	60 - 140
Acrylonitrile	500	457.6		ug/L		92	60 - 140
Benzene	50.0	46.88		ug/L		94	75 - 125
Bromodichloromethane	50.0	48.05		ug/L		96	75 - 125
Bromoform	50.0	50.52		ug/L		101	70 - 130
Bromomethane	50.0	52.12		ug/L		104	60 - 140
Carbon disulfide	50.0	43.15		ug/L		86	60 - 140
Carbon tetrachloride	50.0	43.05		ug/L		86	70 - 130
Chlorobenzene	50.0	48.17		ug/L		96	65 - 135
Chlorodibromomethane	50.0	49.64		ug/L		99	73 - 125
Chloroethane	50.0	43.09		ug/L		86	60 - 140
Chloroform	50.0	47.05		ug/L		94	70 - 121
Chloromethane	50.0	45.28		ug/L		91	60 - 140
Chloroprene	50.0	42.49		ug/L		85	70 - 130
cis-1,2-Dichloroethene	50.0	44.47		ug/L		89	75 - 125
cis-1,3-Dichloropropene	50.0	46.57		ug/L		93	74 - 125
Cumene (isopropylbenzene)	50.0	46.97		ug/L		94	75 - 125
Cyclohexane	50.0	36.34		ug/L		73	70 - 130
Dibromomethane	50.0	50.93		ug/L		102	69 - 127
Dichlorodifluoromethane	50.0	34.41		ug/L		69	50 - 150
Ethyl methacrylate	50.0	47.91		ug/L		96	70 - 130
Ethylbenzene	50.0	46.79		ug/L		94	75 - 125
Iodomethane	50.0	51.85		ug/L		104	75 - 125
Isobutanol	1240	1129		ug/L		91	60 - 140
Methacrylonitrile	500	479.6		ug/L		96	70 - 130
Methyl methacrylate	100	97.18		ug/L		97	70 - 130

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130585/3

Matrix: Water

Analysis Batch: 130585

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl tert-butyl ether	50.0	46.32		ug/L		93	65 - 135
Methylene Chloride	50.0	47.09		ug/L		94	71 - 125
Propionitrile	500	470.6		ug/L		94	70 - 130
Propylbenzene	50.0	47.12		ug/L		94	75 - 125
Styrene	50.0	47.65		ug/L		95	75 - 125
Tetrachloroethene	50.0	48.45		ug/L		97	71 - 125
Tetrahydrofuran	100	93.54		ug/L		94	75 - 125
Toluene	50.0	47.09		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	46.68		ug/L		93	75 - 125
trans-1,3-Dichloropropene	50.0	45.99		ug/L		92	66 - 125
trans-1,4-Dichloro-2-butene	50.0	43.93		ug/L		88	70 - 130
Trichloroethene	50.0	53.43		ug/L		107	75 - 135
Trichlorofluoromethane	50.0	46.21		ug/L		92	60 - 140
Vinyl chloride	50.0	47.90		ug/L		96	60 - 140
Xylenes, Total	100	93.08		ug/L		93	75 - 125
o-Xylene	50.0	46.62		ug/L		93	75 - 125
m,p-Xylenes	50.0	46.46		ug/L		93	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 860-130585/4

Matrix: Water

Analysis Batch: 130585

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	47.95		ug/L		96	72 - 125	2	25
1,1,1-Trichloroethane	50.0	44.24		ug/L		88	70 - 130	2	25
1,1,2,2-Tetrachloroethane	50.0	44.98		ug/L		90	74 - 125	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	38.61		ug/L		77	60 - 140	0	25
1,1,2-Trichloroethane	50.0	49.17		ug/L		98	70 - 130	0	25
1,1-Dichloroethane	50.0	45.48		ug/L		91	70 - 130	1	25
1,1-Dichloroethene	50.0	43.56		ug/L		87	50 - 150	1	25
1,2,3-Trichloropropane	50.0	48.69		ug/L		97	75 - 125	6	25
1,2,4-Trimethylbenzene	50.0	47.21		ug/L		94	75 - 125	1	25
1,2-Dibromo-3-Chloropropane	50.0	54.06		ug/L		108	59 - 125	1	25
1,2-Dibromoethane	50.0	50.08		ug/L		100	73 - 125	1	25
1,2-Dichloroethane	50.0	46.94		ug/L		94	72 - 130	1	25
1,2-Dichloropropane	50.0	47.18		ug/L		94	74 - 125	1	25
1,3,5-Trimethylbenzene	50.0	46.75		ug/L		93	60 - 140	2	25
1,3-Butadiene	50.0	43.83		ug/L		88	60 - 150	3	25
2-Butanone (MEK)	250	237.0		ug/L		95	60 - 140	2	25
2-Hexanone (MBK)	250	229.1		ug/L		92	60 - 140	0	25
2-Propanol	500	424.4		ug/L		85	70 - 120	3	25
3-Chloropropene (Allyl Chloride)	50.0	38.78		ug/L		78	70 - 130	1	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130585/4

Matrix: Water

Analysis Batch: 130585

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone	250	229.2		ug/L		92	60 - 140	0	25
Acetone	250	220.2		ug/L		88	60 - 140	2	25
Acetonitrile	500	411.0		ug/L		82	60 - 140	5	25
Acrolein	250	193.8		ug/L		78	60 - 140	3	25
Acrylonitrile	500	460.8		ug/L		92	60 - 140	1	25
Benzene	50.0	45.87		ug/L		92	75 - 125	2	25
Bromodichloromethane	50.0	46.98		ug/L		94	75 - 125	2	25
Bromoform	50.0	49.61		ug/L		99	70 - 130	2	25
Bromomethane	50.0	53.84		ug/L		108	60 - 140	3	25
Carbon disulfide	50.0	42.62		ug/L		85	60 - 140	1	25
Carbon tetrachloride	50.0	42.42		ug/L		85	70 - 130	1	25
Chlorobenzene	50.0	47.67		ug/L		95	65 - 135	1	25
Chlorodibromomethane	50.0	48.79		ug/L		98	73 - 125	2	25
Chloroethane	50.0	43.99		ug/L		88	60 - 140	2	25
Chloroform	50.0	46.16		ug/L		92	70 - 121	2	25
Chloromethane	50.0	44.43		ug/L		89	60 - 140	2	25
Chloroprene	50.0	41.51		ug/L		83	70 - 130	2	25
cis-1,2-Dichloroethene	50.0	44.08		ug/L		88	75 - 125	1	25
cis-1,3-Dichloropropene	50.0	46.11		ug/L		92	74 - 125	1	25
Cumene (isopropylbenzene)	50.0	45.95		ug/L		92	75 - 125	2	25
Cyclohexane	50.0	38.21		ug/L		76	70 - 130	5	25
Dibromomethane	50.0	49.93		ug/L		100	69 - 127	2	25
Dichlorodifluoromethane	50.0	37.25		ug/L		74	50 - 150	8	25
Ethyl methacrylate	50.0	47.47		ug/L		95	70 - 130	1	25
Ethylbenzene	50.0	45.84		ug/L		92	75 - 125	2	25
Iodomethane	50.0	52.04		ug/L		104	75 - 125	0	25
Isobutanol	1240	1156		ug/L		93	60 - 140	2	25
Methacrylonitrile	500	484.8		ug/L		97	70 - 130	1	25
Methyl methacrylate	100	96.55		ug/L		97	70 - 130	1	25
Methyl tert-butyl ether	50.0	45.85		ug/L		92	65 - 135	1	25
Methylene Chloride	50.0	46.98		ug/L		94	71 - 125	0	25
Propionitrile	500	473.2		ug/L		95	70 - 130	1	25
Propylbenzene	50.0	46.24		ug/L		92	75 - 125	2	25
Styrene	50.0	47.29		ug/L		95	75 - 125	1	25
Tetrachloroethene	50.0	47.34		ug/L		95	71 - 125	2	25
Tetrahydrofuran	100	93.83		ug/L		94	75 - 125	0	25
Toluene	50.0	46.45		ug/L		93	70 - 130	1	25
trans-1,2-Dichloroethene	50.0	46.04		ug/L		92	75 - 125	1	25
trans-1,3-Dichloropropene	50.0	45.59		ug/L		91	66 - 125	1	25
trans-1,4-Dichloro-2-butene	50.0	44.39		ug/L		89	70 - 130	1	25
Trichloroethene	50.0	52.55		ug/L		105	75 - 135	2	25
Trichlorofluoromethane	50.0	49.38		ug/L		99	60 - 140	7	25
Vinyl chloride	50.0	46.54		ug/L		93	60 - 140	3	25
Xylenes, Total	100	91.24		ug/L		91	75 - 125	2	25
o-Xylene	50.0	45.61		ug/L		91	75 - 125	2	25
m,p-Xylenes	50.0	45.63		ug/L		91	75 - 125	2	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130585/4

Matrix: Water

Analysis Batch: 130585

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: 860-61116-G-2 MS

Matrix: Water

Analysis Batch: 130585

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	49.10		ug/L		98	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	46.64		ug/L		93	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	48.05		ug/L		96	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	43.05		ug/L		86	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	48.43		ug/L		97	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	46.92		ug/L		94	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	45.06		ug/L		90	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	44.54		ug/L		89	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	47.83		ug/L		96	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	50.66		ug/L		101	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	49.30		ug/L		99	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	47.16		ug/L		94	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	47.83		ug/L		96	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	47.71		ug/L		95	70 - 125
1,3-Butadiene	<0.568	U	50.0	44.95		ug/L		90	70 - 150
2,2,4-Trimethylpentane	<0.500	U *-	50.0	38.24		ug/L		76	70 - 130
2-Butanone (MEK)	<8.28	U	250	215.4		ug/L		86	60 - 140
2-Hexanone (MBK)	<7.45	U	250	227.3		ug/L		91	60 - 140
2-Propanol	<5.23	U	500	447.7		ug/L		90	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	38.57		ug/L		77	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	231.9		ug/L		93	60 - 140
Acetone	<3.07	U	250	205.5		ug/L		82	60 - 140
Acetonitrile	<14.6	U	500	387.1		ug/L		77	60 - 140
Acrolein	<11.1	U	250	184.8		ug/L		74	50 - 150
Acrylonitrile	<14.3	U	500	426.0		ug/L		85	50 - 150
alpha-Chlorotoluene	<2.26	U F1 *-	50.0	33.63	F1	ug/L		67	70 - 130
Benzene	<0.460	U	50.0	47.87		ug/L		96	66 - 142
Bromodichloromethane	<0.552	U	50.0	47.77		ug/L		96	75 - 125
Bromoform	<0.633	U	50.0	48.52		ug/L		97	75 - 125
Bromomethane	<1.42	U	50.0	52.92		ug/L		106	60 - 140
Carbon disulfide	<1.65	U	50.0	44.51		ug/L		89	60 - 140
Carbon tetrachloride	<0.896	U	50.0	45.79		ug/L		92	62 - 125
Chlorobenzene	<0.455	U	50.0	49.01		ug/L		98	60 - 133
Chlorodibromomethane	<0.547	U	50.0	48.38		ug/L		97	73 - 125
Chloroethane	<1.98	U	50.0	46.54		ug/L		93	60 - 140
Chloroform	<0.464	U	50.0	48.02		ug/L		96	70 - 130
Chloromethane	<2.04	U	50.0	44.58		ug/L		89	60 - 140
Chloroprene	<0.598	U	50.0	43.76		ug/L		88	70 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61116-G-2 MS

Matrix: Water

Analysis Batch: 130585

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	<0.457	U	50.0	45.48		ug/L		91	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	46.43		ug/L		93	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	47.77		ug/L		96	75 - 125
Cyclohexane	<1.29	U	50.0	42.67		ug/L		85	70 - 130
Dibromomethane	<0.357	U	50.0	49.65		ug/L		99	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	37.97		ug/L		76	70 - 130
Ethyl methacrylate	<1.12	U	50.0	48.44		ug/L		97	70 - 130
Ethylbenzene	<0.385	U	50.0	47.63		ug/L		95	75 - 125
Hexane	<0.517	U *	50.0	39.77		ug/L		80	72 - 125
Iodomethane	<6.52	U	50.0	53.92		ug/L		108	75 - 125
Isobutanol	<17.1	U	1240	1073		ug/L		87	60 - 140
Methacrylonitrile	<2.72	U	500	460.9		ug/L		92	70 - 130
Methyl methacrylate	<2.25	U	100	95.82		ug/L		96	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	45.54		ug/L		91	65 - 135
Methylene Chloride	<1.73	U	50.0	45.31		ug/L		91	75 - 125
Propionitrile	<3.34	U	500	445.5		ug/L		89	70 - 130
Propylbenzene	<0.429	U	50.0	48.94		ug/L		98	75 - 125
Styrene	<0.619	U	50.0	48.28		ug/L		97	75 - 125
Tetrachloroethene	<0.655	U	50.0	49.18		ug/L		98	71 - 125
Tetrahydrofuran	<1.83	U	100	84.82		ug/L		85	75 - 125
Toluene	<0.475	U	50.0	48.20		ug/L		96	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	47.68		ug/L		95	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	45.30		ug/L		91	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	41.53		ug/L		83	70 - 130
Trichloroethene	<0.791	U	50.0	50.41		ug/L		101	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	50.66		ug/L		101	60 - 140
Vinyl acetate	<2.14	U *	250	171.5		ug/L		69	60 - 140
Vinyl chloride	<0.428	U	50.0	49.07		ug/L		98	60 - 140
Xylenes, Total	<1.24	U	100	94.49		ug/L		94	75 - 125
o-Xylene	<0.502	U	50.0	47.24		ug/L		94	75 - 125
m,p-Xylenes	<1.24	U	50.0	47.25		ug/L		94	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: MB 860-130880/9

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/14/23 11:28	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/14/23 11:28	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/14/23 11:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/14/23 11:28	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/14/23 11:28	1

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130880/9

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/14/23 11:28	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/14/23 11:28	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/14/23 11:28	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/14/23 11:28	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/14/23 11:28	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/14/23 11:28	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/14/23 11:28	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/14/23 11:28	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/14/23 11:28	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/14/23 11:28	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/14/23 11:28	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/14/23 11:28	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/14/23 11:28	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/14/23 11:28	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/14/23 11:28	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/14/23 11:28	1
Acetone	<3.07	U	100	3.07	ug/L			11/14/23 11:28	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/14/23 11:28	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/14/23 11:28	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/14/23 11:28	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/14/23 11:28	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/14/23 11:28	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/14/23 11:28	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/14/23 11:28	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/14/23 11:28	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/14/23 11:28	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/14/23 11:28	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/14/23 11:28	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/14/23 11:28	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/14/23 11:28	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/14/23 11:28	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/14/23 11:28	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/14/23 11:28	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/14/23 11:28	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/14/23 11:28	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/14/23 11:28	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/14/23 11:28	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/14/23 11:28	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/14/23 11:28	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/14/23 11:28	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/14/23 11:28	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/14/23 11:28	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/14/23 11:28	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/14/23 11:28	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/14/23 11:28	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/14/23 11:28	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/14/23 11:28	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/14/23 11:28	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/14/23 11:28	1

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130880/9

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/14/23 11:28	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/14/23 11:28	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/14/23 11:28	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/14/23 11:28	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/14/23 11:28	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/14/23 11:28	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/14/23 11:28	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/14/23 11:28	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/14/23 11:28	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/14/23 11:28	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/14/23 11:28	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/14/23 11:28	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/14/23 11:28	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/14/23 11:28	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/14/23 11:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		11/14/23 11:28	1
4-Bromofluorobenzene (Surr)	100		74 - 124		11/14/23 11:28	1
Dibromofluoromethane (Surr)	96		75 - 131		11/14/23 11:28	1
Toluene-d8 (Surr)	98		80 - 120		11/14/23 11:28	1

Lab Sample ID: LCS 860-130880/3

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	46.27		ug/L		93	72 - 125
1,1,1-Trichloroethane	50.0	46.71		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.47		ug/L		95	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.32		ug/L		93	60 - 140
1,1,2-Trichloroethane	50.0	46.52		ug/L		93	70 - 130
1,1-Dichloroethane	50.0	42.63		ug/L		85	70 - 130
1,1-Dichloroethene	50.0	44.83		ug/L		90	50 - 150
1,2,3-Trichloropropane	50.0	49.22		ug/L		98	75 - 125
1,2,4-Trimethylbenzene	50.0	49.77		ug/L		100	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	44.48		ug/L		89	59 - 125
1,2-Dibromoethane	50.0	47.58		ug/L		95	73 - 125
1,2-Dichloroethane	50.0	46.18		ug/L		92	72 - 130
1,2-Dichloropropane	50.0	47.50		ug/L		95	74 - 125
1,3,5-Trimethylbenzene	50.0	47.80		ug/L		96	60 - 140
1,3-Butadiene	50.0	47.21		ug/L		94	60 - 150
2,2,4-Trimethylpentane	50.0	50.22		ug/L		100	70 - 130
2-Butanone (MEK)	250	233.5		ug/L		93	60 - 140
2-Hexanone (MBK)	250	250.3		ug/L		100	60 - 140
2-Propanol	500	475.2		ug/L		95	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	43.56		ug/L		87	70 - 130
4-Methyl-2-pentanone	250	243.5		ug/L		97	60 - 140

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130880/3

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	229.4		ug/L		92	60 - 140
Acetonitrile	500	419.0		ug/L		84	60 - 140
Acrolein	250	221.2		ug/L		88	60 - 140
Acrylonitrile	500	436.3		ug/L		87	60 - 140
alpha-Chlorotoluene	50.0	49.94		ug/L		100	75 - 125
Benzene	50.0	46.50		ug/L		93	75 - 125
Bromodichloromethane	50.0	45.23		ug/L		90	75 - 125
Bromoform	50.0	44.68		ug/L		89	70 - 130
Bromomethane	50.0	44.18		ug/L		88	60 - 140
Carbon disulfide	50.0	41.96		ug/L		84	60 - 140
Carbon tetrachloride	50.0	46.06		ug/L		92	70 - 130
Chlorobenzene	50.0	46.30		ug/L		93	65 - 135
Chlorodibromomethane	50.0	44.64		ug/L		89	73 - 125
Chloroethane	50.0	43.94		ug/L		88	60 - 140
Chloroform	50.0	46.56		ug/L		93	70 - 121
Chloromethane	50.0	42.00		ug/L		84	60 - 140
Chloroprene	50.0	46.34		ug/L		93	70 - 130
cis-1,2-Dichloroethene	50.0	44.30		ug/L		89	75 - 125
cis-1,3-Dichloropropene	50.0	48.71		ug/L		97	74 - 125
Cumene (isopropylbenzene)	50.0	49.33		ug/L		99	75 - 125
Cyclohexane	50.0	44.25		ug/L		88	70 - 130
Dibromomethane	50.0	47.27		ug/L		95	69 - 127
Dichlorodifluoromethane	50.0	40.22		ug/L		80	50 - 150
Ethyl methacrylate	50.0	50.52		ug/L		101	70 - 130
Ethylbenzene	50.0	48.01		ug/L		96	75 - 125
Hexane	50.0	46.93		ug/L		94	72 - 125
Iodomethane	50.0	43.10		ug/L		86	75 - 125
Isobutanol	1240	1233		ug/L		99	60 - 140
Methacrylonitrile	500	472.7		ug/L		95	70 - 130
Methyl methacrylate	100	97.49		ug/L		97	70 - 130
Methyl tert-butyl ether	50.0	44.47		ug/L		89	65 - 135
Methylene Chloride	50.0	40.37		ug/L		81	71 - 125
Propionitrile	500	476.8		ug/L		95	70 - 130
Propylbenzene	50.0	48.67		ug/L		97	75 - 125
Styrene	50.0	50.03		ug/L		100	75 - 125
Tetrachloroethene	50.0	47.87		ug/L		96	71 - 125
Tetrahydrofuran	100	95.11		ug/L		95	75 - 125
Toluene	50.0	46.05		ug/L		92	70 - 130
trans-1,2-Dichloroethene	50.0	44.83		ug/L		90	75 - 125
trans-1,3-Dichloropropene	50.0	48.63		ug/L		97	66 - 125
trans-1,4-Dichloro-2-butene	50.0	47.20		ug/L		94	70 - 130
Trichloroethene	50.0	42.02		ug/L		84	75 - 135
Trichlorofluoromethane	50.0	43.01		ug/L		86	60 - 140
Vinyl acetate	250	227.3		ug/L		91	60 - 140
Vinyl chloride	50.0	43.71		ug/L		87	60 - 140
Xylenes, Total	100	98.73		ug/L		99	75 - 125
o-Xylene	50.0	48.87		ug/L		98	75 - 125
m,p-Xylenes	50.0	49.86		ug/L		100	75 - 125

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130880/3

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 860-130880/4

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	46.12		ug/L		92	72 - 125	0	25
1,1,1-Trichloroethane	50.0	47.42		ug/L		95	70 - 130	2	25
1,1,2,2-Tetrachloroethane	50.0	46.45		ug/L		93	74 - 125	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.96		ug/L		100	60 - 140	8	25
1,1,2-Trichloroethane	50.0	46.66		ug/L		93	70 - 130	0	25
1,1-Dichloroethane	50.0	45.87		ug/L		92	70 - 130	7	25
1,1-Dichloroethene	50.0	46.53		ug/L		93	50 - 150	4	25
1,2,3-Trichloropropane	50.0	48.12		ug/L		96	75 - 125	2	25
1,2,4-Trimethylbenzene	50.0	50.46		ug/L		101	75 - 125	1	25
1,2-Dibromo-3-Chloropropane	50.0	43.55		ug/L		87	59 - 125	2	25
1,2-Dibromoethane	50.0	46.94		ug/L		94	73 - 125	1	25
1,2-Dichloroethane	50.0	45.30		ug/L		91	72 - 130	2	25
1,2-Dichloropropane	50.0	47.01		ug/L		94	74 - 125	1	25
1,3,5-Trimethylbenzene	50.0	49.54		ug/L		99	60 - 140	4	25
1,3-Butadiene	50.0	49.71		ug/L		99	60 - 150	5	25
2,2,4-Trimethylpentane	50.0	54.70		ug/L		109	70 - 130	9	25
2-Butanone (MEK)	250	236.4		ug/L		95	60 - 140	1	25
2-Hexanone (MBK)	250	245.8		ug/L		98	60 - 140	2	25
2-Propanol	500	473.8		ug/L		95	70 - 120	0	25
3-Chloropropene (Allyl Chloride)	50.0	43.00		ug/L		86	70 - 130	1	25
4-Methyl-2-pentanone	250	238.1		ug/L		95	60 - 140	2	25
Acetone	250	224.7		ug/L		90	60 - 140	2	25
Acetonitrile	500	426.5		ug/L		85	60 - 140	2	25
Acrolein	250	218.6		ug/L		87	60 - 140	1	25
Acrylonitrile	500	444.5		ug/L		89	60 - 140	2	25
alpha-Chlorotoluene	50.0	48.70		ug/L		97	75 - 125	3	25
Benzene	50.0	46.34		ug/L		93	75 - 125	0	25
Bromodichloromethane	50.0	45.00		ug/L		90	75 - 125	1	25
Bromoform	50.0	44.93		ug/L		90	70 - 130	1	25
Bromomethane	50.0	44.98		ug/L		90	60 - 140	2	25
Carbon disulfide	50.0	44.38		ug/L		89	60 - 140	6	25
Carbon tetrachloride	50.0	47.44		ug/L		95	70 - 130	3	25
Chlorobenzene	50.0	47.65		ug/L		95	65 - 135	3	25
Chlorodibromomethane	50.0	44.73		ug/L		89	73 - 125	0	25
Chloroethane	50.0	44.69		ug/L		89	60 - 140	2	25
Chloroform	50.0	46.60		ug/L		93	70 - 121	0	25
Chloromethane	50.0	43.50		ug/L		87	60 - 140	4	25
Chloroprene	50.0	48.48		ug/L		97	70 - 130	4	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130880/4

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	50.0	44.81		ug/L		90	75 - 125	1	25
cis-1,3-Dichloropropene	50.0	48.43		ug/L		97	74 - 125	1	25
Cumene (isopropylbenzene)	50.0	51.11		ug/L		102	75 - 125	4	25
Cyclohexane	50.0	46.40		ug/L		93	70 - 130	5	25
Dibromomethane	50.0	46.53		ug/L		93	69 - 127	2	25
Dichlorodifluoromethane	50.0	42.59		ug/L		85	50 - 150	6	25
Ethyl methacrylate	50.0	50.89		ug/L		102	70 - 130	1	25
Ethylbenzene	50.0	49.02		ug/L		98	75 - 125	2	25
Hexane	50.0	52.40		ug/L		105	72 - 125	11	25
Iodomethane	50.0	44.27		ug/L		89	75 - 125	3	25
Isobutanol	1240	1206		ug/L		97	60 - 140	2	25
Methacrylonitrile	500	471.4		ug/L		94	70 - 130	0	25
Methyl methacrylate	100	96.80		ug/L		97	70 - 130	1	25
Methyl tert-butyl ether	50.0	44.33		ug/L		89	65 - 135	0	25
Methylene Chloride	50.0	41.12		ug/L		82	71 - 125	2	25
Propionitrile	500	473.6		ug/L		95	70 - 130	1	25
Propylbenzene	50.0	50.67		ug/L		101	75 - 125	4	25
Styrene	50.0	50.71		ug/L		101	75 - 125	1	25
Tetrachloroethene	50.0	49.46		ug/L		99	71 - 125	3	25
Tetrahydrofuran	100	95.75		ug/L		96	75 - 125	1	25
Toluene	50.0	46.83		ug/L		94	70 - 130	2	25
trans-1,2-Dichloroethene	50.0	47.23		ug/L		94	75 - 125	5	25
trans-1,3-Dichloropropene	50.0	48.35		ug/L		97	66 - 125	1	25
trans-1,4-Dichloro-2-butene	50.0	46.13		ug/L		92	70 - 130	2	25
Trichloroethene	50.0	42.25		ug/L		85	75 - 135	1	25
Trichlorofluoromethane	50.0	47.05		ug/L		94	60 - 140	9	25
Vinyl acetate	250	229.5		ug/L		92	60 - 140	1	25
Vinyl chloride	50.0	45.33		ug/L		91	60 - 140	4	25
Xylenes, Total	100	100.1		ug/L		100	75 - 125	1	25
o-Xylene	50.0	49.69		ug/L		99	75 - 125	2	25
m,p-Xylenes	50.0	50.39		ug/L		101	75 - 125	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 860-61260-H-2 MS

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	46.62		ug/L		93	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	45.76		ug/L		92	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	46.85		ug/L		94	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	41.97		ug/L		84	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	46.39		ug/L		93	75 - 127

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61260-H-2 MS

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	<0.635	U	50.0	42.84		ug/L		86	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	44.43		ug/L		89	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	49.35		ug/L		99	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	50.32		ug/L		101	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	43.90		ug/L		88	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	47.21		ug/L		94	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	46.13		ug/L		92	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	46.75		ug/L		94	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	49.39		ug/L		99	70 - 125
1,3-Butadiene	<0.568	U	50.0	42.28		ug/L		85	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	50.06		ug/L		100	70 - 130
2-Butanone (MEK)	<8.28	U	250	230.1		ug/L		92	60 - 140
2-Hexanone (MBK)	<7.45	U	250	244.9		ug/L		98	60 - 140
2-Propanol	<5.23	U	500	447.6		ug/L		90	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	46.81		ug/L		94	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	236.1		ug/L		94	60 - 140
Acetone	<3.07	U	250	216.3		ug/L		87	60 - 140
Acetonitrile	<14.6	U	500	406.8		ug/L		81	60 - 140
Acrolein	<11.1	U	250	210.2		ug/L		84	50 - 150
Acrylonitrile	<14.3	U	500	427.0		ug/L		85	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	50.21		ug/L		100	70 - 130
Benzene	<0.460	U	50.0	45.81		ug/L		92	66 - 142
Bromodichloromethane	<0.552	U	50.0	44.99		ug/L		90	75 - 125
Bromoform	<0.633	U	50.0	44.01		ug/L		88	75 - 125
Bromomethane	<1.42	U	50.0	40.03		ug/L		80	60 - 140
Carbon disulfide	<1.65	U	50.0	40.81		ug/L		82	60 - 140
Carbon tetrachloride	<0.896	U	50.0	44.68		ug/L		89	62 - 125
Chlorobenzene	<0.455	U	50.0	47.29		ug/L		95	60 - 133
Chlorodibromomethane	<0.547	U	50.0	44.83		ug/L		90	73 - 125
Chloroethane	<1.98	U	50.0	40.50		ug/L		81	60 - 140
Chloroform	<0.464	U	50.0	45.59		ug/L		91	70 - 130
Chloromethane	<2.04	U	50.0	37.41		ug/L		75	60 - 140
Chloroprene	<0.598	U	50.0	44.83		ug/L		90	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	44.33		ug/L		89	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	49.06		ug/L		98	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	50.25		ug/L		101	75 - 125
Cyclohexane	<1.29	U	50.0	41.78		ug/L		84	70 - 130
Dibromomethane	<0.357	U	50.0	46.29		ug/L		93	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	35.69		ug/L		71	70 - 130
Ethyl methacrylate	<1.12	U	50.0	51.18		ug/L		102	70 - 130
Ethylbenzene	<0.385	U	50.0	48.50		ug/L		97	75 - 125
Hexane	<0.517	U	50.0	45.53		ug/L		91	72 - 125
Iodomethane	<6.52	U	50.0	41.95		ug/L		84	75 - 125
Isobutanol	<17.1	U	1240	1181		ug/L		95	60 - 140
Methacrylonitrile	<2.72	U	500	461.5		ug/L		92	70 - 130
Methyl methacrylate	<2.25	U	100	97.06		ug/L		97	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	43.35		ug/L		87	65 - 135
Methylene Chloride	<1.73	U	50.0	39.54		ug/L		79	75 - 125
Propionitrile	<3.34	U	500	465.1		ug/L		93	70 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61260-H-2 MS

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Propylbenzene	<0.429	U	50.0	49.86		ug/L		100	75 - 125
Styrene	<0.619	U	50.0	50.57		ug/L		101	75 - 125
Tetrachloroethene	<0.655	U	50.0	47.69		ug/L		95	71 - 125
Tetrahydrofuran	<1.83	U	100	89.77		ug/L		90	75 - 125
Toluene	<0.475	U	50.0	46.63		ug/L		93	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	44.95		ug/L		90	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	48.62		ug/L		97	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	47.96		ug/L		96	70 - 130
Trichloroethene	<0.791	U	50.0	41.57		ug/L		83	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	39.61		ug/L		79	60 - 140
Vinyl acetate	<2.14	U	250	222.5		ug/L		89	60 - 140
Vinyl chloride	<0.428	U	50.0	38.67		ug/L		77	60 - 140
Xylenes, Total	<1.24	U	100	99.23		ug/L		99	75 - 125
o-Xylene	<0.502	U	50.0	49.22		ug/L		98	75 - 125
m,p-Xylenes	<1.24	U	50.0	50.01		ug/L		100	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	100		80 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-130405/1-A

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.150	U	0.571	0.150	ug/L		11/10/23 06:40	11/15/23 18:59	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	137	S1+	37 - 133				11/10/23 06:40	11/15/23 18:59	1

Lab Sample ID: LCS 860-130405/2-A

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130405

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			2.86	0.9155		ug/L		32	27 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
2,4,6-Tribromophenol (Surr)	106		35 - 130								
2-Fluorophenol (Surr)	61		19 - 120								
2-Fluorobiphenyl	122		43 - 130								
Nitrobenzene-d5 (Surr)	144	S1+	37 - 133								
Phenol-d5 (Surr)	48		8 - 124								
p-Terphenyl-d14 (Surr)	93		47 - 130								

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: LCSD 860-130405/3-A

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130405

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.86	0.9367		ug/L		33	27 - 130	2	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	110		35 - 130						
2-Fluorophenol (Surr)	59		19 - 120						
2-Fluorobiphenyl	109		43 - 130						
Nitrobenzene-d5 (Surr)	127		37 - 133						
Phenol-d5 (Surr)	45		8 - 124						
p-Terphenyl-d14 (Surr)	83		47 - 130						

Lab Sample ID: 860-61041-6 MS

Matrix: Water

Analysis Batch: 131258

Client Sample ID: MW-18

Prep Type: Total/NA

Prep Batch: 130405

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	12.7	F1	3.18	12.05	F1	ug/L		-19	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
2,4,6-Tribromophenol (Surr)	150	S1+	35 - 130								
2-Fluorophenol (Surr)	81		19 - 120								
2-Fluorobiphenyl	98		43 - 130								
Nitrobenzene-d5 (Surr)	125		37 - 133								
Phenol-d5 (Surr)	53		8 - 124								
p-Terphenyl-d14 (Surr)	87		47 - 130								

Lab Sample ID: 860-61041-6 MSD

Matrix: Water

Analysis Batch: 131258

Client Sample ID: MW-18

Prep Type: Total/NA

Prep Batch: 130405

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	12.7	F1	3.17	11.32	F1	ug/L		-43	70 - 130	6	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
2,4,6-Tribromophenol (Surr)	170	S1+	35 - 130								
2-Fluorophenol (Surr)	81		19 - 120								
2-Fluorobiphenyl	99		43 - 130								
Nitrobenzene-d5 (Surr)	138	S1+	37 - 133								
Phenol-d5 (Surr)	48		8 - 124								
p-Terphenyl-d14 (Surr)	98		47 - 130								

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 860-130473/1-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130473

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/10/23 10:32	11/14/23 18:59	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130473/1-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130473

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/10/23 10:32	11/14/23 18:59	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/10/23 10:32	11/14/23 18:59	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/10/23 10:32	11/14/23 18:59	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/10/23 10:32	11/14/23 18:59	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/10/23 10:32	11/14/23 18:59	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/10/23 10:32	11/14/23 18:59	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/10/23 10:32	11/14/23 18:59	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/10/23 10:32	11/14/23 18:59	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/10/23 10:32	11/14/23 18:59	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/10/23 10:32	11/14/23 18:59	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/10/23 10:32	11/14/23 18:59	1
3,3'-Dimethylbenzidine	<0.444	U	8.00	0.444	ug/L		11/10/23 10:32	11/14/23 18:59	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/10/23 10:32	11/14/23 18:59	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/10/23 10:32	11/14/23 18:59	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/10/23 10:32	11/14/23 18:59	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/10/23 10:32	11/14/23 18:59	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/10/23 10:32	11/14/23 18:59	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/10/23 10:32	11/14/23 18:59	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/10/23 10:32	11/14/23 18:59	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/10/23 10:32	11/14/23 18:59	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/10/23 10:32	11/14/23 18:59	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/10/23 10:32	11/14/23 18:59	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/10/23 10:32	11/14/23 18:59	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/10/23 10:32	11/14/23 18:59	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/10/23 10:32	11/14/23 18:59	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/10/23 10:32	11/14/23 18:59	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/10/23 10:32	11/14/23 18:59	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/10/23 10:32	11/14/23 18:59	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/10/23 10:32	11/14/23 18:59	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130473/1-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130473

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/10/23 10:32	11/14/23 18:59	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/10/23 10:32	11/14/23 18:59	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/14/23 18:59	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/10/23 10:32	11/14/23 18:59	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/10/23 10:32	11/14/23 18:59	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/10/23 10:32	11/14/23 18:59	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/10/23 10:32	11/14/23 18:59	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/10/23 10:32	11/14/23 18:59	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/10/23 10:32	11/14/23 18:59	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/10/23 10:32	11/14/23 18:59	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/10/23 10:32	11/14/23 18:59	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/14/23 18:59	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/10/23 10:32	11/14/23 18:59	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/14/23 18:59	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/10/23 10:32	11/14/23 18:59	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/10/23 10:32	11/14/23 18:59	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/10/23 10:32	11/14/23 18:59	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/10/23 10:32	11/14/23 18:59	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/10/23 10:32	11/14/23 18:59	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/10/23 10:32	11/14/23 18:59	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/10/23 10:32	11/14/23 18:59	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/10/23 10:32	11/14/23 18:59	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/10/23 10:32	11/14/23 18:59	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/10/23 10:32	11/14/23 18:59	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/10/23 10:32	11/14/23 18:59	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/10/23 10:32	11/14/23 18:59	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/14/23 18:59	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/10/23 10:32	11/14/23 18:59	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/14/23 18:59	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/10/23 10:32	11/14/23 18:59	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/10/23 10:32	11/14/23 18:59	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/10/23 10:32	11/14/23 18:59	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/10/23 10:32	11/14/23 18:59	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/10/23 10:32	11/14/23 18:59	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/10/23 10:32	11/14/23 18:59	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/10/23 10:32	11/14/23 18:59	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/10/23 10:32	11/14/23 18:59	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/10/23 10:32	11/14/23 18:59	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/10/23 10:32	11/14/23 18:59	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/10/23 10:32	11/14/23 18:59	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/10/23 10:32	11/14/23 18:59	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130473/1-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130473

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/10/23 10:32	11/14/23 18:59	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/10/23 10:32	11/14/23 18:59	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/10/23 10:32	11/14/23 18:59	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/10/23 10:32	11/14/23 18:59	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/10/23 10:32	11/14/23 18:59	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/10/23 10:32	11/14/23 18:59	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/10/23 10:32	11/14/23 18:59	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/10/23 10:32	11/14/23 18:59	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/10/23 10:32	11/14/23 18:59	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/10/23 10:32	11/14/23 18:59	1
p-Phenylene diamine	<10.0	U	10.0	10.0	ug/L		11/10/23 10:32	11/14/23 18:59	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/10/23 10:32	11/14/23 18:59	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/14/23 18:59	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/10/23 10:32	11/14/23 18:59	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/10/23 10:32	11/14/23 18:59	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/10/23 10:32	11/14/23 18:59	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/10/23 10:32	11/14/23 18:59	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/10/23 10:32	11/14/23 18:59	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/10/23 10:32	11/14/23 18:59	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/10/23 10:32	11/14/23 18:59	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/10/23 10:32	11/14/23 18:59	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/10/23 10:32	11/14/23 18:59	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/10/23 10:32	11/14/23 18:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	37		31 - 132	11/10/23 10:32	11/14/23 18:59	1
2-Fluorobiphenyl	49		40 - 130	11/10/23 10:32	11/14/23 18:59	1
2-Fluorophenol (Surr)	34		21 - 114	11/10/23 10:32	11/14/23 18:59	1
Nitrobenzene-d5 (Surr)	48		37 - 130	11/10/23 10:32	11/14/23 18:59	1
Phenol-d5 (Surr)	25		16 - 117	11/10/23 10:32	11/14/23 18:59	1
p-Terphenyl-d14	93		20 - 141	11/10/23 10:32	11/14/23 18:59	1

Lab Sample ID: LCS 860-130473/2-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	20.0	10.26		ug/L		51	41 - 117
1,2,4,5-Tetrachlorobenzene	20.0	10.04		ug/L		50	39 - 120
1,2,4-Trichlorobenzene	20.0	10.29		ug/L		51	34 - 117
1,2-Dichlorobenzene	20.0	11.10		ug/L		56	38 - 111
1,3,5-Trinitrobenzene	20.0	16.70		ug/L		83	35 - 128
1,3-Dichlorobenzene	20.0	10.65		ug/L		53	37 - 111
1,3-Dinitrobenzene	20.0	11.47		ug/L		57	36 - 131
1,4-Dichlorobenzene	20.0	10.71		ug/L		54	37 - 111
1,4-Naphthoquinone	20.0	11.94		ug/L		60	10 - 150
1-Naphthylamine	20.0	9.071		ug/L		45	40 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130473/2-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2'-oxybis[1-chloropropane]	20.0	10.37		ug/L		52	10 - 150
2,3,4,6-Tetrachlorophenol	20.0	12.06		ug/L		60	33 - 132
2,4,5-Trichlorophenol	20.0	11.55		ug/L		58	39 - 125
2,4,6-Trichlorophenol	20.0	10.86		ug/L		54	42 - 125
2,4-Dichlorophenol	20.0	10.81		ug/L		54	38 - 120
2,4-Dimethylphenol	20.0	13.09		ug/L		65	39 - 117
2,4-Dinitrophenol	20.0	11.41		ug/L		57	13 - 152
2,4-Dinitrotoluene	20.0	13.02		ug/L		65	41 - 128
2,6-Dichlorophenol	20.0	10.40		ug/L		52	42 - 118
2,6-Dinitrotoluene	20.0	11.64		ug/L		58	42 - 127
2-Acetylaminofluorene	20.0	13.56		ug/L		68	40 - 130
2-Chloronaphthalene	20.0	10.06		ug/L		50	40 - 118
2-Chlorophenol	20.0	11.07		ug/L		55	41 - 108
2-Methylnaphthalene	20.0	10.67		ug/L		53	37 - 112
2-Methylphenol	20.0	9.997		ug/L		50	36 - 125
2-Naphthylamine	20.0	9.254		ug/L		46	40 - 120
2-Nitroaniline	20.0	11.95		ug/L		60	34 - 126
2-Nitrophenol	20.0	11.05		ug/L		55	38 - 125
2-Picoline	20.0	2.526		ug/L		13	11 - 107
2-Toluidine	20.0	8.959		ug/L		45	38 - 124
3 & 4 Methylphenol	20.0	9.564		ug/L		48	35 - 116
3,3'-Dichlorobenzidine	20.0	15.89		ug/L		79	29 - 141
3,3'-Dimethylbenzidine	20.0	2.329	J *	ug/L		12	40 - 130
3-Methylcholanthrene	20.0	15.90		ug/L		79	20 - 130
3-Nitroaniline	20.0	11.84		ug/L		59	42 - 123
4,6-Dinitro-2-methylphenol	20.0	13.94		ug/L		70	12 - 157
4-Aminobiphenyl	20.0	10.51		ug/L		53	20 - 130
4-Bromophenyl phenyl ether	20.0	10.97		ug/L		55	40 - 126
4-Chloro-3-methylphenol	20.0	10.52		ug/L		53	40 - 119
4-Chloroaniline	20.0	9.807		ug/L		49	39 - 111
4-Chlorophenyl phenyl ether	20.0	10.62		ug/L		53	40 - 122
4-Nitroaniline	20.0	15.06		ug/L		75	42 - 125
4-Nitroquinoline-1-oxide	20.0	14.87		ug/L		74	20 - 130
7,12-Dimethylbenz(a)anthracene	20.0	13.87		ug/L		69	40 - 120
Acenaphthene	20.0	10.61		ug/L		53	41 - 116
Acenaphthylene	20.0	11.05		ug/L		55	41 - 118
Acetophenone	20.0	10.73		ug/L		54	23 - 175
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0	
Aniline	20.0	6.774		ug/L		34	31 - 100
Anthracene	20.0	12.59		ug/L		63	39 - 127
Benzo[a]anthracene	20.0	16.24		ug/L		81	40 - 129
Benzo[a]pyrene	20.0	16.73		ug/L		84	36 - 141
Benzo[b]fluoranthene	20.0	16.13		ug/L		81	34 - 139
Benzo[g,h,i]perylene	20.0	17.62		ug/L		88	32 - 141
Benzo[k]fluoranthene	20.0	16.46		ug/L		82	31 - 139
Benzyl alcohol	20.0	11.33		ug/L		57	37 - 102
Bis(2-chloroethoxy)methane	20.0	10.77		ug/L		54	36 - 113
Bis(2-chloroethyl)ether	20.0	11.27		ug/L		56	38 - 111

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130473/2-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	20.0	15.98		ug/L		80	44 - 136
Butyl benzyl phthalate	20.0	16.55		ug/L		83	44 - 133
Chrysene	20.0	16.12		ug/L		81	41 - 124
Dibenz(a,h)anthracene	20.0	17.66		ug/L		88	35 - 143
Dibenzofuran	20.0	10.72		ug/L		54	41 - 119
Diethyl phthalate	20.0	12.02		ug/L		60	41 - 125
Dimethyl phthalate	20.0	11.41		ug/L		57	42 - 123
Di-n-butyl phthalate	20.0	16.11		ug/L		81	41 - 133
Di-n-octyl phthalate	20.0	16.66		ug/L		83	34 - 145
Diphenyl ether	20.0	10.10		ug/L		51	40 - 130
Ethyl methanesulfonate	20.0	11.04		ug/L		55	40 - 127
Fluoranthene	20.0	15.37		ug/L		77	38 - 132
Fluorene	20.0	10.78		ug/L		54	41 - 121
Hexachlorobenzene	20.0	11.22		ug/L		56	39 - 128
Hexachlorobutadiene	20.0	10.28		ug/L		51	31 - 120
Hexachlorocyclopentadiene	20.0	12.28		ug/L		61	15 - 117
Hexachloroethane	20.0	10.43		ug/L		52	37 - 109
Hexachloropropene	20.0	9.688		ug/L		48	24 - 122
Indeno[1,2,3-cd]pyrene	20.0	17.67		ug/L		88	35 - 141
Isophorone	20.0	10.99		ug/L		55	40 - 115
Methyl methanesulfonate	20.0	9.910		ug/L		50	33 - 120
Naphthalene	20.0	10.40		ug/L		52	37 - 113
Nitrobenzene	20.0	10.90		ug/L		55	37 - 114
N-Nitro-o-toluidine	20.0	12.77		ug/L		64	40 - 120
N-Nitrosodiethylamine	20.0	11.57		ug/L		58	42 - 115
N-Nitrosodimethylamine	20.0	9.193		ug/L		46	28 - 126
N-Nitrosodi-n-butylamine	20.0	8.820		ug/L		44	34 - 122
N-Nitrosodi-n-propylamine	20.0	11.16		ug/L		56	38 - 117
N-Nitrosodiphenylamine	20.0	11.92		ug/L		60	40 - 127
N-Nitrosomethylethylamine	20.0	11.32		ug/L		57	41 - 108
N-Nitrosomorpholine	20.0	10.31		ug/L		52	32 - 115
N-Nitrosopiperidine	20.0	10.96		ug/L		55	39 - 115
N-Nitrosopyrrolidine	20.0	11.15		ug/L		56	36 - 121
p-Dimethylamino azobenzene	20.0	13.46		ug/L		67	38 - 124
Pentachlorobenzene	20.0	10.10		ug/L		51	40 - 123
Pentachloronitrobenzene	20.0	12.66		ug/L		63	40 - 120
Pentachlorophenol	20.0	12.99		ug/L		65	10 - 137
Phenacetin	20.0	13.99		ug/L		70	20 - 130
Phenanthrene	20.0	12.07		ug/L		60	39 - 126
Phenol	20.0	6.645		ug/L		33	15 - 106
p-Phenylene diamine	20.0	<10.0	U *-	ug/L		0	1 - 150
Pronamide	20.0	16.32		ug/L		82	25 - 120
Pyrene	20.0	14.30		ug/L		72	40 - 130
Pyridine	20.0	2.523	*-	ug/L		13	16 - 135
Safrole, Total	20.0	10.26		ug/L		51	40 - 120
Aramite Peak 2	10.0	7.137		ug/L		71	35 - 130
Isosafrole Peak 1	3.20	<2.46	U	ug/L		46	40 - 120
Diallate Peak 2	5.20	2.937	J	ug/L		56	38 - 130
Isosafrole Peak 2	16.8	8.629		ug/L		51	40 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130473/2-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diallate Peak 1	14.8	9.011		ug/L		61	38 - 130
Aramite Peak 1	10.0	6.918		ug/L		69	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	65		31 - 132
2-Fluorobiphenyl	64		40 - 130
2-Fluorophenol (Surr)	49		21 - 114
Nitrobenzene-d5 (Surr)	66		37 - 130
Phenol-d5 (Surr)	37		16 - 117
p-Terphenyl-d14	106		20 - 141

Lab Sample ID: LCSD 860-130473/3-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1,1'-Biphenyl	20.0	11.90		ug/L		59	41 - 117	15	30
1,2,4,5-Tetrachlorobenzene	20.0	11.54		ug/L		58	39 - 120	14	30
1,2,4-Trichlorobenzene	20.0	11.76		ug/L		59	34 - 117	13	30
1,2-Dichlorobenzene	20.0	12.14		ug/L		61	38 - 111	9	30
1,3,5-Trinitrobenzene	20.0	17.53		ug/L		88	35 - 128	5	30
1,3-Dichlorobenzene	20.0	11.92		ug/L		60	37 - 111	11	30
1,3-Dinitrobenzene	20.0	13.94		ug/L		70	36 - 131	19	30
1,4-Dichlorobenzene	20.0	11.95		ug/L		60	37 - 111	11	30
1,4-Naphthoquinone	20.0	14.28		ug/L		71	10 - 150	18	30
1-Naphthylamine	20.0	10.93		ug/L		55	40 - 120	19	30
2,2'-oxybis[1-chloropropane]	20.0	11.62		ug/L		58	10 - 150	11	30
2,3,4,6-Tetrachlorophenol	20.0	15.13		ug/L		76	33 - 132	23	30
2,4,5-Trichlorophenol	20.0	14.19		ug/L		71	39 - 125	21	30
2,4,6-Trichlorophenol	20.0	13.49		ug/L		67	42 - 125	22	30
2,4-Dichlorophenol	20.0	12.61		ug/L		63	38 - 120	15	30
2,4-Dimethylphenol	20.0	14.67		ug/L		73	39 - 117	11	30
2,4-Dinitrophenol	20.0	13.71		ug/L		69	13 - 152	18	30
2,4-Dinitrotoluene	20.0	15.74		ug/L		79	41 - 128	19	30
2,6-Dichlorophenol	20.0	12.21		ug/L		61	42 - 118	16	30
2,6-Dinitrotoluene	20.0	14.26		ug/L		71	42 - 127	20	30
2-Acetylaminofluorene	20.0	14.88		ug/L		74	40 - 130	9	30
2-Chloronaphthalene	20.0	11.51		ug/L		58	40 - 118	13	30
2-Chlorophenol	20.0	12.43		ug/L		62	41 - 108	12	30
2-Methylnaphthalene	20.0	12.03		ug/L		60	37 - 112	12	30
2-Methylphenol	20.0	11.72		ug/L		59	36 - 125	16	30
2-Naphthylamine	20.0	10.59		ug/L		53	40 - 120	13	30
2-Nitroaniline	20.0	14.46		ug/L		72	34 - 126	19	30
2-Nitrophenol	20.0	12.69		ug/L		63	38 - 125	14	30
2-Picoline	20.0	2.326		ug/L		12	11 - 107	8	30
2-Toluidine	20.0	9.277		ug/L		46	38 - 124	3	30
3 & 4 Methylphenol	20.0	11.04		ug/L		55	35 - 116	14	30
3,3'-Dichlorobenzidine	20.0	16.27		ug/L		81	29 - 141	2	30

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130473/3-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dimethylbenzidine	20.0	1.795	J *	ug/L		9	40 - 130	26	30
3-Methylcholanthrene	20.0	16.69		ug/L		83	20 - 130	5	30
3-Nitroaniline	20.0	13.92		ug/L		70	42 - 123	16	30
4,6-Dinitro-2-methylphenol	20.0	15.90		ug/L		80	12 - 157	13	30
4-Aminobiphenyl	20.0	10.67		ug/L		53	20 - 130	2	30
4-Bromophenyl phenyl ether	20.0	13.09		ug/L		65	40 - 126	18	30
4-Chloro-3-methylphenol	20.0	12.24		ug/L		61	40 - 119	15	30
4-Chloroaniline	20.0	11.14		ug/L		56	39 - 111	13	30
4-Chlorophenyl phenyl ether	20.0	12.50		ug/L		62	40 - 122	16	30
4-Nitroaniline	20.0	16.68		ug/L		83	42 - 125	10	30
4-Nitroquinoline-1-oxide	20.0	16.47		ug/L		82	20 - 130	10	30
7,12-Dimethylbenz(a)anthracene	20.0	15.02		ug/L		75	40 - 120	8	30
Acenaphthene	20.0	12.43		ug/L		62	41 - 116	16	30
Acenaphthylene	20.0	12.83		ug/L		64	41 - 118	15	30
Acetophenone	20.0	12.34		ug/L		62	23 - 175	14	30
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0		NC	30
Aniline	20.0	6.666		ug/L		33	31 - 100	2	30
Anthracene	20.0	14.56		ug/L		73	39 - 127	14	30
Benzo[a]anthracene	20.0	17.10		ug/L		85	40 - 129	5	30
Benzo[a]pyrene	20.0	18.18		ug/L		91	36 - 141	8	30
Benzo[b]fluoranthene	20.0	17.04		ug/L		85	34 - 139	5	30
Benzo[g,h,i]perylene	20.0	18.48		ug/L		92	32 - 141	5	30
Benzo[k]fluoranthene	20.0	18.36		ug/L		92	31 - 139	11	30
Benzyl alcohol	20.0	13.15		ug/L		66	37 - 102	15	30
Bis(2-chloroethoxy)methane	20.0	11.96		ug/L		60	36 - 113	10	30
Bis(2-chloroethyl)ether	20.0	12.42		ug/L		62	38 - 111	10	30
Bis(2-ethylhexyl) phthalate	20.0	17.20		ug/L		86	44 - 136	7	30
Butyl benzyl phthalate	20.0	17.93		ug/L		90	44 - 133	8	30
Chrysene	20.0	16.64		ug/L		83	41 - 124	3	30
Dibenz(a,h)anthracene	20.0	18.94		ug/L		95	35 - 143	7	30
Dibenzofuran	20.0	12.83		ug/L		64	41 - 119	18	30
Diethyl phthalate	20.0	13.71		ug/L		69	41 - 125	13	30
Dimethyl phthalate	20.0	13.58		ug/L		68	42 - 123	17	30
Di-n-butyl phthalate	20.0	17.75		ug/L		89	41 - 133	10	30
Di-n-octyl phthalate	20.0	18.02		ug/L		90	34 - 145	8	30
Diphenyl ether	20.0	11.66		ug/L		58	40 - 130	14	30
Ethyl methanesulfonate	20.0	12.85		ug/L		64	40 - 127	15	30
Fluoranthene	20.0	16.69		ug/L		83	38 - 132	8	30
Fluorene	20.0	12.91		ug/L		65	41 - 121	18	30
Hexachlorobenzene	20.0	13.28		ug/L		66	39 - 128	17	30
Hexachlorobutadiene	20.0	11.50		ug/L		58	31 - 120	11	30
Hexachlorocyclopentadiene	20.0	14.30		ug/L		72	15 - 117	15	30
Hexachloroethane	20.0	11.67		ug/L		58	37 - 109	11	30
Hexachloropropene	20.0	11.12		ug/L		56	24 - 122	14	30
Indeno[1,2,3-cd]pyrene	20.0	18.83		ug/L		94	35 - 141	6	30
Isophorone	20.0	12.52		ug/L		63	40 - 115	13	30
Methyl methanesulfonate	20.0	11.11		ug/L		56	33 - 120	11	30
Naphthalene	20.0	11.42		ug/L		57	37 - 113	9	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130473/3-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrobenzene	20.0	12.49		ug/L		62	37 - 114	14	30
N-Nitro-o-toluidine	20.0	14.89		ug/L		74	40 - 120	15	30
N-Nitrosodiethylamine	20.0	12.79		ug/L		64	42 - 115	10	30
N-Nitrosodimethylamine	20.0	10.39		ug/L		52	28 - 126	12	30
N-Nitrosodi-n-butylamine	20.0	10.12		ug/L		51	34 - 122	14	30
N-Nitrosodi-n-propylamine	20.0	12.18		ug/L		61	38 - 117	9	30
N-Nitrosodiphenylamine	20.0	14.13		ug/L		71	40 - 127	17	30
N-Nitrosomethylethylamine	20.0	12.44		ug/L		62	41 - 108	9	30
N-Nitrosomorpholine	20.0	12.27		ug/L		61	32 - 115	17	30
N-Nitrosopiperidine	20.0	12.89		ug/L		64	39 - 115	16	30
N-Nitrosopyrrolidine	20.0	13.09		ug/L		65	36 - 121	16	30
p-Dimethylamino azobenzene	20.0	14.62		ug/L		73	38 - 124	8	30
Pentachlorobenzene	20.0	11.93		ug/L		60	40 - 123	17	30
Pentachloronitrobenzene	20.0	14.22		ug/L		71	40 - 120	12	30
Pentachlorophenol	20.0	14.95		ug/L		75	10 - 137	14	30
Phenacetin	20.0	16.10		ug/L		80	20 - 130	14	30
Phenanthrene	20.0	13.95		ug/L		70	39 - 126	14	30
Phenol	20.0	7.702		ug/L		39	15 - 106	15	30
p-Phenylene diamine	20.0	<10.0	U *-	ug/L		0	1 - 150	NC	30
Pronamide	20.0	17.73		ug/L		89	25 - 120	8	30
Pyrene	20.0	15.25		ug/L		76	40 - 130	6	30
Pyridine	20.0	2.431	*-	ug/L		12	16 - 135	4	30
Safrole, Total	20.0	11.81		ug/L		59	40 - 120	14	30
Aramite Peak 2	10.0	7.714		ug/L		77	35 - 130	8	30
Isosafrole Peak 1	3.20	<2.46	U	ug/L		54	40 - 120	16	30
Diallate Peak 2	5.20	3.565	J	ug/L		69	38 - 130	19	30
Isosafrole Peak 2	16.8	10.29		ug/L		61	40 - 120	18	30
Diallate Peak 1	14.8	10.47		ug/L		71	38 - 130	15	30
Aramite Peak 1	10.0	7.221		ug/L		72	35 - 130	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	78		31 - 132
2-Fluorobiphenyl	71		40 - 130
2-Fluorophenol (Surr)	53		21 - 114
Nitrobenzene-d5 (Surr)	71		37 - 130
Phenol-d5 (Surr)	40		16 - 117
p-Terphenyl-d14	108		20 - 141

Lab Sample ID: 860-61041-6 MS

Matrix: Water

Analysis Batch: 131436

Client Sample ID: MW-18

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	<0.428	U	20.0	13.22		ug/L		66	41 - 117
1,2,4,5-Tetrachlorobenzene	<0.672	U	20.0	12.43		ug/L		62	39 - 120
1,2,4-Trichlorobenzene	<0.680	U	20.0	12.79		ug/L		64	34 - 117
1,2-Dichlorobenzene	<0.296	U	20.0	12.74		ug/L		64	38 - 111
1,3,5-Trinitrobenzene	<1.43	U	20.0	18.25		ug/L		91	70 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61041-6 MS

Matrix: Water

Analysis Batch: 131436

Client Sample ID: MW-18

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	<0.350	U F2	20.0	12.64		ug/L		63	37 - 111
1,3-Dinitrobenzene	<0.112	U	20.0	15.44		ug/L		77	36 - 131
1,4-Dichlorobenzene	<0.428	U F2	20.0	12.61		ug/L		63	37 - 111
1,4-Naphthoquinone	<1.85	U F1	20.0	14.89		ug/L		74	70 - 130
1-Naphthylamine	<0.232	U F1	20.0	6.586	F1	ug/L		33	40 - 120
2,2'-oxybis[1-chloropropane]	<0.139	U F2	20.0	13.89		ug/L		69	32 - 110
2,3,4,6-Tetrachlorophenol	<0.174	U	20.0	20.48		ug/L		102	33 - 132
2,4,5-Trichlorophenol	<0.108	U	20.0	17.78		ug/L		89	39 - 125
2,4,6-Trichlorophenol	<0.135	U	20.0	16.86		ug/L		84	42 - 125
2,4-Dichlorophenol	<0.115	U F2	20.0	13.89		ug/L		69	38 - 120
2,4-Dimethylphenol	<0.148	U F2	20.0	17.00		ug/L		85	39 - 117
2,4-Dinitrophenol	<1.46	U	20.0	20.88		ug/L		104	13 - 152
2,4-Dinitrotoluene	<0.127	U	20.0	18.22		ug/L		91	41 - 128
2,6-Dichlorophenol	<0.126	U F2	20.0	13.50		ug/L		67	42 - 118
2,6-Dinitrotoluene	<0.199	U F2	20.0	16.77		ug/L		84	42 - 127
2-Acetylaminofluorene	<1.52	U	20.0	23.12		ug/L		116	70 - 130
2-Chloronaphthalene	<1.09	U	20.0	12.81		ug/L		64	40 - 118
2-Chlorophenol	<0.0135	U F2	20.0	13.13		ug/L		66	41 - 108
2-Methylnaphthalene	<0.480	U F2	20.0	13.60		ug/L		68	37 - 112
2-Methylphenol	<0.159	U F2	20.0	12.33		ug/L		62	36 - 125
2-Naphthylamine	<0.595	U F1	20.0	4.644	J F1	ug/L		23	40 - 120
2-Nitroaniline	<0.163	U F1	20.0	98.75	E F1	ug/L		494	34 - 126
2-Nitrophenol	<0.135	U F2	20.0	15.17		ug/L		76	38 - 125
2-Picoline	<0.215	U F1 F2	20.0	1.808	J F1	ug/L		9	11 - 107
2-Toluidine	<0.934	U F1	20.0	9.857	F1	ug/L		49	70 - 130
3 & 4 Methylphenol	<0.163	U F2	20.0	11.18		ug/L		56	35 - 116
3,3'-Dichlorobenzidine	<0.220	U F1	20.0	<0.220	U F1	ug/L		0	29 - 141
3,3'-Dimethylbenzidine	<0.444	U F1 *	20.0	0.8785	J F1	ug/L		4	70 - 130
3-Methylcholanthrene	<0.159	U	20.0	20.90		ug/L		104	20 - 130
3-Nitroaniline	<0.344	U	20.0	15.16		ug/L		76	42 - 123
4,6-Dinitro-2-methylphenol	<0.736	U	20.0	21.28		ug/L		106	12 - 157
4-Aminobiphenyl	<0.297	U F1	20.0	3.203	J F1	ug/L		16	20 - 130
4-Bromophenyl phenyl ether	<0.167	U	20.0	16.53		ug/L		83	40 - 126
4-Chloro-3-methylphenol	<0.157	U	20.0	16.16		ug/L		81	40 - 119
4-Chloroaniline	<0.149	U	20.0	11.02		ug/L		55	39 - 111
4-Chlorophenyl phenyl ether	<0.232	U F2	20.0	14.19		ug/L		71	40 - 122
4-Nitroaniline	<0.247	U	20.0	17.06		ug/L		85	42 - 125
4-Nitroquinoline-1-oxide	<2.15	U F1	20.0	10.86	F1	ug/L		54	70 - 130
7,12-Dimethylbenz(a)anthracene	<0.0610	U	20.0	15.32		ug/L		77	40 - 120
Acenaphthene	0.587	J F2	20.0	14.72		ug/L		71	41 - 118
Acenaphthylene	<0.215	U F2	20.0	15.00		ug/L		75	41 - 116
Acetophenone	<0.225	U F2	20.0	12.43		ug/L		62	23 - 125
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	20.0	<4.00	U F1	ug/L		0	70 - 130
Aniline	<0.314	U	20.0	6.918		ug/L		35	31 - 120
Anthracene	<0.154	U	20.0	18.14		ug/L		91	39 - 127
Benzo[a]anthracene	<0.150	U	20.0	19.21		ug/L		96	40 - 129
Benzo[a]pyrene	<0.148	U	20.0	20.82		ug/L		104	36 - 141
Benzo[b]fluoranthene	<0.210	U	20.0	19.00		ug/L		95	34 - 139

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61041-6 MS

Matrix: Water

Analysis Batch: 131436

Client Sample ID: MW-18

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[g,h,i]perylene	<0.143	U	20.0	25.51		ug/L		128	32 - 141
Benzo[k]fluoranthene	<0.166	U	20.0	17.96		ug/L		90	31 - 139
Benzyl alcohol	<4.50	U	20.0	13.73		ug/L		69	37 - 102
Bis(2-chloroethoxy)methane	<0.170	U F2	20.0	12.82		ug/L		64	36 - 113
Bis(2-chloroethyl)ether	<0.278	U F2	20.0	12.74		ug/L		64	38 - 111
Bis(2-ethylhexyl) phthalate	<0.225	U	20.0	18.33		ug/L		92	44 - 136
Butyl benzyl phthalate	<0.150	U	20.0	20.48		ug/L		102	44 - 133
Chrysene	<0.159	U	20.0	18.51		ug/L		93	41 - 124
Dibenz(a,h)anthracene	<0.148	U	20.0	25.08		ug/L		125	35 - 143
Dibenzofuran	<0.336	U F2	20.0	13.87		ug/L		69	41 - 119
Diethyl phthalate	<0.118	U	20.0	16.06		ug/L		80	41 - 125
Dimethyl phthalate	<0.143	U F2	20.0	15.65		ug/L		78	42 - 123
Di-n-butyl phthalate	<0.800	U	20.0	21.14		ug/L		106	41 - 133
Di-n-octyl phthalate	<0.169	U	20.0	19.00		ug/L		95	34 - 145
Ethyl methanesulfonate	<1.38	U F1	20.0	12.67	F1	ug/L		63	70 - 130
Fluoranthene	<0.148	U	20.0	20.14		ug/L		101	38 - 132
Fluorene	<0.205	U F2	20.0	14.83		ug/L		74	41 - 121
Hexachlorobenzene	<0.126	U	20.0	15.68		ug/L		78	39 - 128
Hexachlorobutadiene	<0.252	U F2	20.0	12.74		ug/L		64	31 - 120
Hexachlorocyclopentadiene	<0.431	U	20.0	15.61		ug/L		78	15 - 117
Hexachloroethane	<0.140	U	20.0	11.76		ug/L		59	37 - 109
Hexachloropropene	<0.213	U F2	20.0	12.42		ug/L		62	
Indeno[1,2,3-cd]pyrene	<0.852	U	20.0	25.40		ug/L		127	35 - 141
Isophorone	<0.168	U F2	20.0	14.18		ug/L		71	40 - 115
Methyl methanesulfonate	<0.0610	U F1 F2	20.0	11.34	F1	ug/L		57	70 - 130
Naphthalene	<0.423	U F2	20.0	12.94		ug/L		65	37 - 113
Nitrobenzene	<0.934	U F2	20.0	13.71		ug/L		69	37 - 114
N-Nitro-o-toluidine	<1.31	U	20.0	15.00		ug/L		75	35 - 130
N-Nitrosodiethylamine	<1.54	U F1 F2	20.0	13.39	F1	ug/L		67	70 - 130
N-Nitrosodimethylamine	<0.126	U	20.0	8.784		ug/L		44	28 - 127
N-Nitrosodi-n-butylamine	<1.54	U	20.0	11.37		ug/L		57	34 - 122
N-Nitrosodi-n-propylamine	<0.161	U F2	20.0	13.63		ug/L		68	38 - 117
N-Nitrosodiphenylamine	<0.155	U	20.0	18.61		ug/L		93	40 - 127
N-Nitrosomethylethylamine	<0.199	U F2	20.0	13.29		ug/L		66	28 - 126
N-Nitrosomorpholine	<1.44	U F1 F2	20.0	13.25	F1	ug/L		66	70 - 130
N-Nitrosopiperidine	<1.44	U F2	20.0	13.06		ug/L		65	39 - 115
N-Nitrosopyrrolidine	<1.38	U F2	20.0	13.19		ug/L		66	36 - 121
p-Dimethylamino azobenzene	<0.0579	U	20.0	15.38		ug/L		77	38 - 124
Pentachlorobenzene	<1.18	U F2	20.0	12.98		ug/L		65	40 - 123
Pentachloronitrobenzene	<1.27	U	20.0	18.10		ug/L		91	40 - 120
Pentachlorophenol	<0.441	U	20.0	22.92		ug/L		115	10 - 137
Phenacetin	<1.32	U	20.0	18.81		ug/L		94	20 - 130
Phenanthrene	<0.176	U	20.0	17.41		ug/L		87	39 - 126
Phenol	3.59	J F2	20.0	11.89		ug/L		41	15 - 106
p-Phenylene diamine	<10.0	U F1 *-	20.0	<10.0	U F1	ug/L		0	1 - 150
Pronamide	<1.39	U	20.0	20.74		ug/L		104	25 - 120
Pyrene	<0.159	U	20.0	17.74		ug/L		89	40 - 130
Pyridine	<0.725	U F1 F2 *-	20.0	1.337	J F1	ug/L		7	16 - 135
Safrole, Total	<0.183	U F1	20.0	13.79	F1	ug/L		69	70 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61041-6 MS

Matrix: Water

Analysis Batch: 131436

Client Sample ID: MW-18

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aramite Peak 2	<2.74	U F2	10.0	11.81		ug/L		118	
Isosafrole Peak 1	<2.46	U F1	3.20	<2.46	U F1	ug/L		0	70 - 130
Diallate Peak 2	<0.602	U F2 F1	5.20	4.605	J	ug/L		89	70 - 130
Isosafrole Peak 2	<2.12	U F1	16.8	11.95		ug/L		71	70 - 130
Diallate Peak 1	<0.675	U F2 F1	14.8	14.22		ug/L		96	70 - 130
Aramite Peak 1	<0.670	U F2	10.0	10.88		ug/L		109	

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	115		31 - 132
2-Fluorobiphenyl	86		40 - 130
2-Fluorophenol (Surr)	54		21 - 114
Nitrobenzene-d5 (Surr)	77		37 - 130
Phenol-d5 (Surr)	40		16 - 117
p-Terphenyl-d14	126		20 - 141

Lab Sample ID: 860-61041-6 MSD

Matrix: Water

Analysis Batch: 131436

Client Sample ID: MW-18

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	<0.428	U	20.0	11.54		ug/L		58	41 - 117	14	30
1,2,4,5-Tetrachlorobenzene	<0.672	U	20.0	10.03		ug/L		50	39 - 120	21	30
1,2,4-Trichlorobenzene	<0.680	U	20.0	9.480		ug/L		47	34 - 117	30	30
1,2-Dichlorobenzene	<0.296	U	20.0	9.414		ug/L		47	38 - 111	30	30
1,3,5-Trinitrobenzene	<1.43	U	20.0	16.34		ug/L		82	70 - 130	11	30
1,3-Dichlorobenzene	<0.350	U F2	20.0	9.121	F2	ug/L		46	37 - 111	32	30
1,3-Dinitrobenzene	<0.112	U	20.0	11.86		ug/L		59	36 - 131	26	30
1,4-Dichlorobenzene	<0.428	U F2	20.0	9.017	F2	ug/L		45	37 - 111	33	30
1,4-Naphthoquinone	<1.85	U F1	20.0	12.73	F1	ug/L		64	70 - 130	16	30
1-Naphthylamine	<0.232	U F1	20.0	7.541	F1	ug/L		38	40 - 120	14	30
2,2'-oxybis[1-chloropropane]	<0.139	U F2	20.0	9.055	F2	ug/L		45	32 - 110	42	30
2,3,4,6-Tetrachlorophenol	<0.174	U	20.0	16.27		ug/L		81	33 - 132	23	30
2,4,5-Trichlorophenol	<0.108	U	20.0	15.09		ug/L		75	39 - 125	16	30
2,4,6-Trichlorophenol	<0.135	U	20.0	12.88		ug/L		64	42 - 125	27	30
2,4-Dichlorophenol	<0.115	U F2	20.0	9.866	F2	ug/L		49	38 - 120	34	30
2,4-Dimethylphenol	<0.148	U F2	20.0	11.40	F2	ug/L		57	39 - 117	39	30
2,4-Dinitrophenol	<1.46	U	20.0	17.20		ug/L		86	13 - 152	19	30
2,4-Dinitrotoluene	<0.127	U	20.0	14.12		ug/L		71	41 - 128	25	30
2,6-Dichlorophenol	<0.126	U F2	20.0	9.568	F2	ug/L		48	42 - 118	34	30
2,6-Dinitrotoluene	<0.199	U F2	20.0	12.16	F2	ug/L		61	42 - 127	32	30
2-Acetylaminofluorene	<1.52	U	20.0	19.82		ug/L		99	70 - 130	15	30
2-Chloronaphthalene	<1.09	U	20.0	12.44		ug/L		62	40 - 118	3	30
2-Chlorophenol	<0.0135	U F2	20.0	9.211	F2	ug/L		46	41 - 108	35	30
2-Methylnaphthalene	<0.480	U F2	20.0	9.687	F2	ug/L		48	37 - 112	34	30
2-Methylphenol	<0.159	U F2	20.0	8.637	F2	ug/L		43	36 - 125	35	30
2-Naphthylamine	<0.595	U F1	20.0	5.471	J F1	ug/L		27	40 - 120	16	30
2-Nitroaniline	<0.163	U F1	20.0	84.77	E F1	ug/L		424	34 - 126	15	30
2-Nitrophenol	<0.135	U F2	20.0	10.10	F2	ug/L		51	38 - 125	40	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61041-6 MSD

Matrix: Water

Analysis Batch: 131436

Client Sample ID: MW-18

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Picoline	<0.215	U F1 F2	20.0	3.495	F2	ug/L		17	11 - 107	64	30
2-Toluidine	<0.934	U F1	20.0	8.043	F1	ug/L		40	70 - 130	20	30
3 & 4 Methylphenol	<0.163	U F2	20.0	8.128	F2	ug/L		41	35 - 116	32	30
3,3'-Dichlorobenzidine	<0.220	U F1	20.0	<0.220	U F1	ug/L		0	29 - 141	NC	30
3,3'-Dimethylbenzidine	<0.444	U F1 *-	20.0	0.6706	J F1	ug/L		3	70 - 130	27	30
3-Methylcholanthrene	<0.159	U	20.0	18.54		ug/L		93	20 - 130	12	30
3-Nitroaniline	<0.344	U	20.0	13.73		ug/L		69	42 - 123	10	30
4,6-Dinitro-2-methylphenol	<0.736	U	20.0	18.03		ug/L		90	12 - 157	16	30
4-Aminobiphenyl	<0.297	U F1	20.0	3.806	J F1	ug/L		19	20 - 130	17	30
4-Bromophenyl phenyl ether	<0.167	U	20.0	12.26		ug/L		61	40 - 126	30	30
4-Chloro-3-methylphenol	<0.157	U	20.0	11.98		ug/L		60	40 - 119	30	30
4-Chloroaniline	<0.149	U	20.0	8.353		ug/L		42	39 - 111	28	30
4-Chlorophenyl phenyl ether	<0.232	U F2	20.0	10.17	F2	ug/L		51	40 - 122	33	30
4-Nitroaniline	<0.247	U	20.0	14.10		ug/L		71	42 - 125	19	30
4-Nitroquinoline-1-oxide	<2.15	U F1	20.0	8.832	F1	ug/L		44	70 - 130	21	30
7,12-Dimethylbenz(a)anthracene	<0.0610	U	20.0	13.24		ug/L		66	40 - 120	15	30
Acenaphthene	0.587	J F2	20.0	10.16	F2	ug/L		48	41 - 118	37	30
Acenaphthylene	<0.215	U F2	20.0	10.17	F2	ug/L		51	41 - 116	38	30
Acetophenone	<0.225	U F2	20.0	8.804	F2	ug/L		44	23 - 125	34	30
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	20.0	<4.00	U F1	ug/L		0	70 - 130	NC	
Aniline	<0.314	U	20.0	7.224		ug/L		36	31 - 120	4	30
Anthracene	<0.154	U	20.0	14.01		ug/L		70	39 - 127	26	30
Benzo[a]anthracene	<0.150	U	20.0	17.39		ug/L		87	40 - 129	10	30
Benzo[a]pyrene	<0.148	U	20.0	18.56		ug/L		93	36 - 141	11	30
Benzo[b]fluoranthene	<0.210	U	20.0	16.45		ug/L		82	34 - 139	14	30
Benzo[g,h,i]perylene	<0.143	U	20.0	24.31		ug/L		122	32 - 141	5	30
Benzo[k]fluoranthene	<0.166	U	20.0	16.19		ug/L		81	31 - 139	10	30
Benzyl alcohol	<4.50	U	20.0	10.19		ug/L		51	37 - 102	30	30
Bis(2-chloroethoxy)methane	<0.170	U F2	20.0	8.803	F2	ug/L		44	36 - 113	37	30
Bis(2-chloroethyl)ether	<0.278	U F2	20.0	9.019	F2	ug/L		45	38 - 111	34	30
Bis(2-ethylhexyl) phthalate	<0.225	U	20.0	15.62		ug/L		78	44 - 136	16	30
Butyl benzyl phthalate	<0.150	U	20.0	16.45		ug/L		82	44 - 133	22	30
Chrysene	<0.159	U	20.0	15.61		ug/L		78	41 - 124	17	30
Dibenz(a,h)anthracene	<0.148	U	20.0	23.78		ug/L		119	35 - 143	5	30
Dibenzofuran	<0.336	U F2	20.0	9.899	F2	ug/L		49	41 - 119	33	30
Diethyl phthalate	<0.118	U	20.0	12.25		ug/L		61	41 - 125	27	30
Dimethyl phthalate	<0.143	U F2	20.0	11.46	F2	ug/L		57	42 - 123	31	30
Di-n-butyl phthalate	<0.800	U	20.0	18.50		ug/L		92	41 - 133	13	30
Di-n-octyl phthalate	<0.169	U	20.0	16.16		ug/L		81	34 - 145	16	30
Ethyl methanesulfonate	<1.38	U F1	20.0	9.421	F1	ug/L		47	70 - 130	29	30
Fluoranthene	<0.148	U	20.0	17.49		ug/L		87	38 - 132	14	30
Fluorene	<0.205	U F2	20.0	10.34	F2	ug/L		52	41 - 121	36	30
Hexachlorobenzene	<0.126	U	20.0	11.78		ug/L		59	39 - 128	28	30
Hexachlorobutadiene	<0.252	U F2	20.0	9.212	F2	ug/L		46	31 - 120	32	30
Hexachlorocyclopentadiene	<0.431	U	20.0	12.31		ug/L		62	15 - 117	24	30
Hexachloroethane	<0.140	U	20.0	9.382		ug/L		47	37 - 109	22	30
Hexachloropropene	<0.213	U F2	20.0	9.125	F2	ug/L		46		31	30
Indeno[1,2,3-cd]pyrene	<0.852	U	20.0	24.16		ug/L		121	35 - 141	5	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61041-6 MSD

Matrix: Water

Analysis Batch: 131436

Client Sample ID: MW-18

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isophorone	<0.168	U F2	20.0	9.317	F2	ug/L		47	40 - 115	41	30
Methyl methanesulfonate	<0.0610	U F1 F2	20.0	8.092	F1 F2	ug/L		40	70 - 130	33	30
Naphthalene	<0.423	U F2	20.0	9.112	F2	ug/L		46	37 - 113	35	30
Nitrobenzene	<0.934	U F2	20.0	9.333	F2	ug/L		47	37 - 114	38	30
N-Nitro-o-toluidine	<1.31	U	20.0	13.39		ug/L		67	35 - 130	11	30
N-Nitrosodiethylamine	<1.54	U F1 F2	20.0	9.488	F1 F2	ug/L		47	70 - 130	34	30
N-Nitrosodimethylamine	<0.126	U	20.0	7.186		ug/L		36	28 - 127	20	30
N-Nitrosodi-n-butylamine	<1.54	U	20.0	8.762		ug/L		44	34 - 122	26	30
N-Nitrosodi-n-propylamine	<0.161	U F2	20.0	9.722	F2	ug/L		49	38 - 117	34	30
N-Nitrosodiphenylamine	<0.155	U	20.0	14.44		ug/L		72	40 - 127	25	30
N-Nitrosomethylethylamine	<0.199	U F2	20.0	9.128	F2	ug/L		46	28 - 126	37	30
N-Nitrosomorpholine	<1.44	U F1 F2	20.0	9.146	F1 F2	ug/L		46	70 - 130	37	30
N-Nitrosopiperidine	<1.44	U F2	20.0	8.858	F2	ug/L		44	39 - 115	38	30
N-Nitrosopyrrolidine	<1.38	U F2	20.0	9.178	F2	ug/L		46	36 - 121	36	30
p-Dimethylamino azobenzene	<0.0579	U	20.0	12.09		ug/L		60	38 - 124	24	30
Pentachlorobenzene	<1.18	U F2	20.0	9.418	F2	ug/L		47	40 - 123	32	30
Pentachloronitrobenzene	<1.27	U	20.0	13.75		ug/L		69	40 - 120	27	30
Pentachlorophenol	<0.441	U	20.0	19.95		ug/L		100	10 - 137	14	30
Phenacetin	<1.32	U	20.0	17.34		ug/L		87	20 - 130	8	30
Phenanthrene	<0.176	U	20.0	13.29		ug/L		66	39 - 126	27	30
Phenol	3.59	J F2	20.0	8.628	F2	ug/L		25	15 - 106	32	30
p-Phenylene diamine	<10.0	U F1 *-	20.0	<10.0	U F1	ug/L		0	1 - 150	NC	50
Pronamide	<1.39	U	20.0	18.39		ug/L		92	25 - 120	12	30
Pyrene	<0.159	U	20.0	13.48		ug/L		67	40 - 130	27	30
Pyridine	<0.725	U F1 F2 *-	20.0	3.072	F1 F2	ug/L		15	16 - 135	79	30
Safrole, Total	<0.183	U F1	20.0	10.22	F1	ug/L		51	70 - 130	30	30
Aramite Peak 2	<2.74	U F2	10.0	7.916	F2	ug/L		79		39	30
Isosafrole Peak 1	<2.46	U F1	3.20	<2.46	U F1	ug/L		0	70 - 130	NC	30
Diallate Peak 2	<0.602	U F2 F1	5.20	3.063	J F1 F2	ug/L		59	70 - 130	40	30
Isosafrole Peak 2	<2.12	U F1	16.8	9.951	F1	ug/L		59	70 - 130	18	30
Diallate Peak 1	<0.675	U F2 F1	14.8	9.879	F1 F2	ug/L		67	70 - 130	36	30
Aramite Peak 1	<0.670	U F2	10.0	7.612	F2	ug/L		76		35	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	96		31 - 132
2-Fluorobiphenyl	73		40 - 130
2-Fluorophenol (Surr)	40		21 - 114
Nitrobenzene-d5 (Surr)	59		37 - 130
Phenol-d5 (Surr)	29		16 - 117
p-Terphenyl-d14	99		20 - 141

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Lab Sample ID: 860-61041-6 MS

Matrix: Water

Analysis Batch: 131559

Client Sample ID: MW-18

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diphenyl ether - DL	393		20.0	382.2	4	ug/L		-52	

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL (Continued)

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr) - DL	69		31 - 132
2-Fluorobiphenyl - DL	68		40 - 130
2-Fluorophenol (Surr) - DL	42		21 - 114
Nitrobenzene-d5 (Surr) - DL	63		37 - 130
Phenol-d5 (Surr) - DL	27		16 - 117
p-Terphenyl-d14 - DL	102		20 - 141

Lab Sample ID: 860-61041-6 MSD

Matrix: Water

Analysis Batch: 131559

Client Sample ID: MW-18

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diphenyl ether - DL	393		20.0	301.8	4	ug/L		-454		24	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr) - DL	64		31 - 132
2-Fluorobiphenyl - DL	64		40 - 130
2-Fluorophenol (Surr) - DL	33		21 - 114
Nitrobenzene-d5 (Surr) - DL	46		37 - 130
Phenol-d5 (Surr) - DL	20		16 - 117
p-Terphenyl-d14 - DL	105		20 - 141

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

GC/MS VOA

Analysis Batch: 130327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61041-1	MW-24	Total/NA	Water	8260D	
860-61041-5	TB-03 (110723)	Total/NA	Water	8260D	
860-61041-6	MW-18	Total/NA	Water	8260D	
860-61041-7	MW-6	Total/NA	Water	8260D	
860-61041-8	MW-9	Total/NA	Water	8260D	
MB 860-130327/10	Method Blank	Total/NA	Water	8260D	
LCS 860-130327/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-130327/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61041-6 MS	MW-18	Total/NA	Water	8260D	
860-61041-6 MSD	MW-18	Total/NA	Water	8260D	

Analysis Batch: 130585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61041-2	MW-20	Total/NA	Water	8260D	
860-61041-3	MW-22	Total/NA	Water	8260D	
860-61041-4	MW-19	Total/NA	Water	8260D	
MB 860-130585/10	Method Blank	Total/NA	Water	8260D	
LCS 860-130585/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-130585/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61116-G-2 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 130880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61041-2 - RA	MW-20	Total/NA	Water	8260D	
860-61041-3 - RA	MW-22	Total/NA	Water	8260D	
860-61041-4 - RA	MW-19	Total/NA	Water	8260D	
MB 860-130880/9	Method Blank	Total/NA	Water	8260D	
LCS 860-130880/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-130880/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61260-H-2 MS	Matrix Spike	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 130405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61041-1	MW-24	Total/NA	Water	3511	
860-61041-2	MW-20	Total/NA	Water	3511	
860-61041-3	MW-22	Total/NA	Water	3511	
860-61041-4	MW-19	Total/NA	Water	3511	
860-61041-6	MW-18	Total/NA	Water	3511	
860-61041-7	MW-6	Total/NA	Water	3511	
860-61041-8	MW-9	Total/NA	Water	3511	
MB 860-130405/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-130405/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-130405/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
860-61041-6 MS	MW-18	Total/NA	Water	3511	
860-61041-6 MSD	MW-18	Total/NA	Water	3511	

Prep Batch: 130473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61041-1	MW-24	Total/NA	Water	3510C	

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

GC/MS Semi VOA (Continued)

Prep Batch: 130473 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61041-2	MW-20	Total/NA	Water	3510C	
860-61041-2 - DL	MW-20	Total/NA	Water	3510C	
860-61041-3 - DL	MW-22	Total/NA	Water	3510C	
860-61041-3	MW-22	Total/NA	Water	3510C	
860-61041-4 - DL	MW-19	Total/NA	Water	3510C	
860-61041-4	MW-19	Total/NA	Water	3510C	
860-61041-6	MW-18	Total/NA	Water	3510C	
860-61041-6 - DL	MW-18	Total/NA	Water	3510C	
860-61041-7	MW-6	Total/NA	Water	3510C	
860-61041-8	MW-9	Total/NA	Water	3510C	
MB 860-130473/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-130473/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-130473/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
860-61041-6 MS - DL	MW-18	Total/NA	Water	3510C	
860-61041-6 MS	MW-18	Total/NA	Water	3510C	
860-61041-6 MSD - DL	MW-18	Total/NA	Water	3510C	
860-61041-6 MSD	MW-18	Total/NA	Water	3510C	

Analysis Batch: 131054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-130473/1-A	Method Blank	Total/NA	Water	8270E LL	130473
LCS 860-130473/2-A	Lab Control Sample	Total/NA	Water	8270E LL	130473
LCSD 860-130473/3-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	130473

Analysis Batch: 131258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61041-1	MW-24	Total/NA	Water	8270E	130405
860-61041-3	MW-22	Total/NA	Water	8270E	130405
860-61041-6	MW-18	Total/NA	Water	8270E	130405
MB 860-130405/1-A	Method Blank	Total/NA	Water	8270E	130405
LCS 860-130405/2-A	Lab Control Sample	Total/NA	Water	8270E	130405
LCSD 860-130405/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	130405
860-61041-6 MS	MW-18	Total/NA	Water	8270E	130405
860-61041-6 MSD	MW-18	Total/NA	Water	8270E	130405

Analysis Batch: 131328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61041-2	MW-20	Total/NA	Water	8270E	130405
860-61041-4	MW-19	Total/NA	Water	8270E	130405
860-61041-7	MW-6	Total/NA	Water	8270E	130405
860-61041-8	MW-9	Total/NA	Water	8270E	130405

Analysis Batch: 131436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61041-6	MW-18	Total/NA	Water	8270E LL	130473
860-61041-6 MS	MW-18	Total/NA	Water	8270E LL	130473
860-61041-6 MSD	MW-18	Total/NA	Water	8270E LL	130473

Analysis Batch: 131559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61041-6 - DL	MW-18	Total/NA	Water	8270E LL	130473

Eurofins Houston

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

GC/MS Semi VOA (Continued)

Analysis Batch: 131559 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61041-6 MS - DL	MW-18	Total/NA	Water	8270E LL	130473
860-61041-6 MSD - DL	MW-18	Total/NA	Water	8270E LL	130473

Analysis Batch: 131659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61041-1	MW-24	Total/NA	Water	8270E LL	130473
860-61041-7	MW-6	Total/NA	Water	8270E LL	130473
860-61041-8	MW-9	Total/NA	Water	8270E LL	130473

Analysis Batch: 131720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61041-3	MW-22	Total/NA	Water	8270E LL	130473
860-61041-4	MW-19	Total/NA	Water	8270E LL	130473

Analysis Batch: 131841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61041-2	MW-20	Total/NA	Water	8270E LL	130473
860-61041-2 - DL	MW-20	Total/NA	Water	8270E LL	130473
860-61041-3 - DL	MW-22	Total/NA	Water	8270E LL	130473
860-61041-4 - DL	MW-19	Total/NA	Water	8270E LL	130473

Analysis Batch: 132731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61041-6	MW-18	Total/NA	Water	8270E LL	130473

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-24

Date Collected: 11/07/23 12:48

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61041-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130327	11/09/23 22:45	A1S	EET HOU
Total/NA	Prep	3511			32.3 mL	2 mL	130405	11/10/23 06:40	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131258	11/15/23 20:29	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130473	11/10/23 10:32	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131659	11/17/23 23:23	T1S	EET HOU

Client Sample ID: MW-20

Date Collected: 11/07/23 14:04

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61041-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	130880	11/14/23 12:50	NA	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	130585	11/11/23 14:20	AN	EET HOU
Total/NA	Prep	3511			34.4 mL	2 mL	130405	11/10/23 06:40	TH	EET HOU
Total/NA	Analysis	8270E		10	1 mL	1 mL	131328	11/16/23 19:13	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130473	11/10/23 10:32	DR	EET HOU
Total/NA	Analysis	8270E LL		10	1 mL	1 mL	131841	11/20/23 12:56	EM	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	130473	11/10/23 10:32	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	100	1 mL	1 mL	131841	11/20/23 13:17	EM	EET HOU

Client Sample ID: MW-22

Date Collected: 11/07/23 15:00

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61041-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	130880	11/14/23 13:11	NA	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	130585	11/11/23 14:40	AN	EET HOU
Total/NA	Prep	3511			32.7 mL	2 mL	130405	11/10/23 06:40	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131258	11/15/23 21:28	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130473	11/10/23 10:32	DR	EET HOU
Total/NA	Analysis	8270E LL		10	1 mL	1 mL	131720	11/18/23 12:39	T1S	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	130473	11/10/23 10:32	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	200	1 mL	1 mL	131841	11/20/23 13:38	EM	EET HOU

Client Sample ID: MW-19

Date Collected: 11/07/23 16:04

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61041-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	130880	11/14/23 13:31	NA	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	130585	11/11/23 15:01	AN	EET HOU
Total/NA	Prep	3511			32.8 mL	2 mL	130405	11/10/23 06:40	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131328	11/16/23 18:43	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130473	11/10/23 10:32	DR	EET HOU
Total/NA	Analysis	8270E LL		10	1 mL	1 mL	131720	11/18/23 13:00	T1S	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-19

Date Collected: 11/07/23 16:04

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61041-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	130473	11/10/23 10:32	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	100	1 mL	1 mL	131841	11/20/23 13:59	EM	EET HOU

Client Sample ID: TB-03 (110723)

Date Collected: 11/07/23 00:00

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61041-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130327	11/09/23 21:23	A1S	EET HOU

Client Sample ID: MW-18

Date Collected: 11/08/23 11:58

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61041-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130327	11/09/23 22:24	A1S	EET HOU
Total/NA	Prep	3511			31.9 mL	2 mL	130405	11/10/23 06:40	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131258	11/15/23 22:28	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130473	11/10/23 10:32	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131436	11/16/23 16:51	EM	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	130473	11/10/23 10:32	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	10	1 mL	1 mL	131559	11/17/23 13:37	PXS	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130473	11/10/23 10:32	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132731	11/28/23 13:59	T1S	EET HOU

Client Sample ID: MW-6

Date Collected: 11/08/23 13:19

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61041-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130327	11/09/23 23:06	A1S	EET HOU
Total/NA	Prep	3511			31.7 mL	2 mL	130405	11/10/23 06:40	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131328	11/16/23 11:11	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130473	11/10/23 10:32	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131659	11/17/23 23:44	T1S	EET HOU

Client Sample ID: MW-9

Date Collected: 11/08/23 14:45

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61041-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130327	11/09/23 23:26	A1S	EET HOU
Total/NA	Prep	3511			32.7 mL	2 mL	130405	11/10/23 06:40	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131328	11/16/23 11:41	JM	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Client Sample ID: MW-9

Date Collected: 11/08/23 14:45

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61041-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1.00 mL	130473	11/10/23 10:33	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131659	11/18/23 00:05	T1S	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61041-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-61041-1	MW-24	Water	11/07/23 12:48	11/09/23 09:56
860-61041-2	MW-20	Water	11/07/23 14:04	11/09/23 09:56
860-61041-3	MW-22	Water	11/07/23 15:00	11/09/23 09:56
860-61041-4	MW-19	Water	11/07/23 16:04	11/09/23 09:56
860-61041-5	TB-03 (110723)	Water	11/07/23 00:00	11/09/23 09:56
860-61041-6	MW-18	Water	11/08/23 11:58	11/09/23 09:56
860-61041-7	MW-6	Water	11/08/23 13:19	11/09/23 09:56
860-61041-8	MW-9	Water	11/08/23 14:45	11/09/23 09:56

Chain of Custody Record

Client Information Client Contact: Mr. Antonio Cardoso Company: ARCADIS US Inc Address: 4300 West Cypress Street, Suite 450 City: Tampa State Zip: FL, 33607 Phone: _____ Email: antonio.cardoso@arcadis.com Project Name: Hercules Hattiesburg MS Site: Hercules		Sample: <u>A</u> Phone: <u>205 540-7901</u> E-Mail: Sachin.Kudchadkar@eurofins.com Lab PM: Kudchadkar Sachin G Carrier Tracking No(s): 860-23558-8445.1 Page: <u>1 of 1</u> Job #: _____	
Analysis Requested Temp: <u>23</u> IR ID: HOU-369 C/F: <u>-0.0</u> Corrected Temp: <u>23</u>		Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Y Trizma Z other (specify) Other: _____	
Due Date Requested: _____ TAT Requested (days): _____ Compliance Project: ☐ Yes ☒ No PO #: _____ WO #: _____ Project #: 86006085 SSOWN: _____		Total Number of Containers: <u>7</u> Special Instructions/Note: _____	
Sample Identification MW-24 MW-20 MW-22 MW-19 TRS-03 (110723) MW-18 MW-6 MW-9		Matrix (Water, Seawater, Oil, or Tissue, Acid) Water Water Water Water Water Water Water Water	
Sample Date 11/7/23 11/7/23 11/7/23 11/7/23 11/8/23 11/8/23 11/8/23		Sample Type (C=Comp, G=Grab) G G G G G G G G	
Sample Time 1248 1404 1500 1604 1158 1319 1445		Field Filtered Sample (Yes or No) ☒ Yes ☒ No	
Perform MS/MSD (Yes or No) ☒ Yes ☒ No		8270E_SIM_ID_D5 1.4 Dioxane 8270E_LL Appendix 9 SVOCs 8280D Appendix 9 VOCs	
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested I II III IV Other (specify) _____		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements: _____	
Empty Kit Relinquished by: _____ Relinquished by: _____ Relinquished by: _____ Relinquished by: _____		Date: _____ Date: 11/8/23 Date: 11/8/23 Date: 11/8/23	
Custody Seals Intact: ☒ Yes ☐ No Custody Seal No. _____		Cooler Temperature(s) °C and Other Remarks: _____	

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-61041-1

Login Number: 61041

List Number: 1

Creator: Rubio, Yuri

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

ANALYTICAL REPORT

PREPARED FOR

Attn: Timothy Hassett
Ashland LLC
Ashland Hercules Research Center
500 Hercules Rd Bldg 8145
Wilmington, Delaware 19808

Generated 11/29/2023 4:00:41 PM

JOB DESCRIPTION

Hercules Hattiesburg, MS

JOB NUMBER

860-61059-1

Eurofins Houston

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
11/29/2023 4:00:41 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Definitions/Glossary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Job ID: 860-61059-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-61059-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/9/2023 9:56 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 860-130327 recovered above the upper control limit for 1,4-Dioxane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-130327/2).

Method 8260D: The continuing calibration verification (CCV) associated with batch 860-130327 recovered outside acceptance criteria, low biased, for Dichloro difluoromethane(-27.3%)

A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The sample duplicate (DUP) precision for analytical batch 860-130327 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270E_LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-130473 and analytical batch 860-131054 recovered outside control limits for the following analyte(s): Pyridine. Pyridine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E_LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-130701 and analytical batch 860-131106 recovered outside control limits for the following analyte(s): alpha,alpha-Dimethyl phenethylamine, p-Phenylene diamine and 3,3'-Dimethylbenzidine. alpha,alpha-Dimethyl phenethylamine, p-Phenylene diamine and 3,3'-Dimethylbenzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E_LL: The following samples were diluted due to the nature of the sample matrix: MW-79 (860-61059-4) and MW-39 (860-61059-5). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-130473 and analytical batch 860-131436 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270E_LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Job ID: 860-61059-1 (Continued)

Laboratory: Eurofins Houston (Continued)

860-130473 and analytical batch 860-131054 recovered outside control limits for the following analyte(s): p-Phenylene diamine and 3,3'-Dimethylbenzidine. p-Phenylene diamine and 3,3'-Dimethylbenzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E_LL: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 860-130473 and analytical batch 860-131436 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Diphenyl ether and 2-Nitroaniline in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 8270E_QQQ: The surrogate recovery for the method blank and laboratory control sample associated with preparation batch 860-130405 and analytical batch 860-131258 was outside the upper control limit for Nitrobenzene-d5.

Method 8270E_QQQ: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-130405 and analytical batch 860-131258 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 8270E_QQQ: Surrogate recovery for the following sample was outside control limits. Sample only needs 1,4-Dioxane and 1,4-Dioxane is under surrogate 2-Fluorophenol; therefore, the sample has reported.

Method 8270E_QQQ: Surrogate recovery for the following samples were outside control limits: MW-85 (860-61059-1), MW-86 (860-61059-2), MW-87 (860-61059-3), MW-79 (860-61059-4) and MW-39 (860-61059-5). Sample only needs 1,4-Dioxane and 1,4-Dioxane is under surrogate 2-Fluorophenol; therefore, the sample has reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-85

Lab Sample ID: 860-61059-1

No Detections.

Client Sample ID: MW-86

Lab Sample ID: 860-61059-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.98	J	5.00	1.39	ug/L	1		8260D	Total/NA
Diphenyl ether	4.54	J	8.00	0.364	ug/L	1		8270E LL	Total/NA

Client Sample ID: MW-87

Lab Sample ID: 860-61059-3

No Detections.

Client Sample ID: MW-79

Lab Sample ID: 860-61059-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	9.88		1.00	0.455	ug/L	1		8260D	Total/NA
Vinyl chloride	0.813	J	2.00	0.428	ug/L	1		8260D	Total/NA
Diphenyl ether	193		40.0	1.82	ug/L	5		8270E LL	Total/NA
Phenol	1.51	J	20.0	1.01	ug/L	5		8270E LL	Total/NA
1,4-Dioxane	4.74		0.599	0.157	ug/L	1		8270E	Total/NA

Client Sample ID: MW-39

Lab Sample ID: 860-61059-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.80		1.00	0.460	ug/L	1		8260D	Total/NA
Chlorobenzene	9.16		1.00	0.455	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.507	J	1.00	0.457	ug/L	1		8260D	Total/NA
Cumene (isopropylbenzene)	1.12		1.00	0.592	ug/L	1		8260D	Total/NA
Diphenyl ether	109		40.0	1.82	ug/L	5		8270E LL	Total/NA
1,4-Dioxane	2.44		0.601	0.158	ug/L	1		8270E	Total/NA

Client Sample ID: TB-01(110723)

Lab Sample ID: 860-61059-6

No Detections.

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-85

Lab Sample ID: 860-61059-1

Date Collected: 11/07/23 09:21

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/09/23 23:47	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/09/23 23:47	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/09/23 23:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/09/23 23:47	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/09/23 23:47	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/09/23 23:47	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/09/23 23:47	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/09/23 23:47	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/09/23 23:47	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/09/23 23:47	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/09/23 23:47	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/09/23 23:47	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/09/23 23:47	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/09/23 23:47	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/09/23 23:47	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/09/23 23:47	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/09/23 23:47	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/09/23 23:47	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/09/23 23:47	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/09/23 23:47	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/09/23 23:47	1
Acetone	<3.07	U	100	3.07	ug/L			11/09/23 23:47	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/09/23 23:47	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/09/23 23:47	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/09/23 23:47	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/09/23 23:47	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/09/23 23:47	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/09/23 23:47	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/09/23 23:47	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/09/23 23:47	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/09/23 23:47	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/09/23 23:47	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/09/23 23:47	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/09/23 23:47	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/09/23 23:47	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/09/23 23:47	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/09/23 23:47	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/09/23 23:47	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/09/23 23:47	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/09/23 23:47	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/09/23 23:47	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/09/23 23:47	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/09/23 23:47	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/09/23 23:47	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/09/23 23:47	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/09/23 23:47	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/09/23 23:47	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/09/23 23:47	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/09/23 23:47	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-85

Lab Sample ID: 860-61059-1

Date Collected: 11/07/23 09:21

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/09/23 23:47	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/09/23 23:47	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/09/23 23:47	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/09/23 23:47	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/09/23 23:47	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/09/23 23:47	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/09/23 23:47	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/09/23 23:47	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/09/23 23:47	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/09/23 23:47	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/09/23 23:47	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/09/23 23:47	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/09/23 23:47	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/09/23 23:47	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/09/23 23:47	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/09/23 23:47	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/09/23 23:47	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/09/23 23:47	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/09/23 23:47	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/09/23 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		11/09/23 23:47	1
4-Bromofluorobenzene (Surr)	97		74 - 124		11/09/23 23:47	1
Dibromofluoromethane (Surr)	104		75 - 131		11/09/23 23:47	1
Toluene-d8 (Surr)	97		80 - 120		11/09/23 23:47	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/10/23 10:32	11/18/23 00:26	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/10/23 10:32	11/18/23 00:26	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/10/23 10:32	11/18/23 00:26	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/10/23 10:32	11/18/23 00:26	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/10/23 10:32	11/18/23 00:26	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/10/23 10:32	11/18/23 00:26	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/10/23 10:32	11/18/23 00:26	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/10/23 10:32	11/18/23 00:26	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/10/23 10:32	11/18/23 00:26	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/10/23 10:32	11/18/23 00:26	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/10/23 10:32	11/18/23 00:26	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/10/23 10:32	11/18/23 00:26	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/10/23 10:32	11/18/23 00:26	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/10/23 10:32	11/18/23 00:26	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/10/23 10:32	11/18/23 00:26	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/18/23 00:26	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/10/23 10:32	11/18/23 00:26	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/10/23 10:32	11/18/23 00:26	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/18/23 00:26	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/10/23 10:32	11/18/23 00:26	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/10/23 10:32	11/18/23 00:26	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-85

Lab Sample ID: 860-61059-1

Date Collected: 11/07/23 09:21

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/10/23 10:32	11/18/23 00:26	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/10/23 10:32	11/18/23 00:26	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/10/23 10:32	11/18/23 00:26	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/18/23 00:26	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/10/23 10:32	11/18/23 00:26	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/10/23 10:32	11/18/23 00:26	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/10/23 10:32	11/18/23 00:26	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/10/23 10:32	11/18/23 00:26	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/10/23 10:32	11/18/23 00:26	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/10/23 10:32	11/18/23 00:26	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/10/23 10:32	11/18/23 00:26	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/10/23 10:32	11/18/23 00:26	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/10/23 10:32	11/18/23 00:26	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/10/23 10:32	11/18/23 00:26	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/10/23 10:32	11/18/23 00:26	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/10/23 10:32	11/18/23 00:26	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/10/23 10:32	11/18/23 00:26	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/10/23 10:32	11/18/23 00:26	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/10/23 10:32	11/18/23 00:26	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/10/23 10:32	11/18/23 00:26	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/10/23 10:32	11/18/23 00:26	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/10/23 10:32	11/18/23 00:26	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/10/23 10:32	11/18/23 00:26	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/10/23 10:32	11/18/23 00:26	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/10/23 10:32	11/18/23 00:26	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/10/23 10:32	11/18/23 00:26	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/10/23 10:32	11/18/23 00:26	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/10/23 10:32	11/18/23 00:26	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/10/23 10:32	11/18/23 00:26	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/10/23 10:32	11/18/23 00:26	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/10/23 10:32	11/18/23 00:26	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/18/23 00:26	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/10/23 10:32	11/18/23 00:26	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/10/23 10:32	11/18/23 00:26	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/10/23 10:32	11/18/23 00:26	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/10/23 10:32	11/18/23 00:26	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/10/23 10:32	11/18/23 00:26	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/10/23 10:32	11/18/23 00:26	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/10/23 10:32	11/18/23 00:26	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/10/23 10:32	11/18/23 00:26	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/18/23 00:26	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/10/23 10:32	11/18/23 00:26	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/18/23 00:26	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/10/23 10:32	11/18/23 00:26	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/10/23 10:32	11/18/23 00:26	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/10/23 10:32	11/18/23 00:26	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/10/23 10:32	11/18/23 00:26	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/10/23 10:32	11/18/23 00:26	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/10/23 10:32	11/18/23 00:26	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-85

Lab Sample ID: 860-61059-1

Date Collected: 11/07/23 09:21

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/10/23 10:32	11/18/23 00:26	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/10/23 10:32	11/18/23 00:26	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/10/23 10:32	11/18/23 00:26	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/10/23 10:32	11/18/23 00:26	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/10/23 10:32	11/18/23 00:26	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/10/23 10:32	11/18/23 00:26	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/18/23 00:26	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/10/23 10:32	11/18/23 00:26	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/18/23 00:26	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/10/23 10:32	11/18/23 00:26	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/10/23 10:32	11/18/23 00:26	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/10/23 10:32	11/18/23 00:26	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/10/23 10:32	11/18/23 00:26	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/10/23 10:32	11/18/23 00:26	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/10/23 10:32	11/18/23 00:26	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/10/23 10:32	11/18/23 00:26	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/10/23 10:32	11/18/23 00:26	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/10/23 10:32	11/18/23 00:26	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/10/23 10:32	11/18/23 00:26	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/10/23 10:32	11/18/23 00:26	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/10/23 10:32	11/18/23 00:26	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/10/23 10:32	11/18/23 00:26	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/10/23 10:32	11/18/23 00:26	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/18/23 00:26	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/10/23 10:32	11/18/23 00:26	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/10/23 10:32	11/18/23 00:26	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/10/23 10:32	11/18/23 00:26	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/10/23 10:32	11/18/23 00:26	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/10/23 10:32	11/18/23 00:26	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/10/23 10:32	11/18/23 00:26	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/10/23 10:32	11/18/23 00:26	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/10/23 10:32	11/18/23 00:26	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/10/23 10:32	11/18/23 00:26	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/10/23 10:32	11/18/23 00:26	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/10/23 10:32	11/18/23 00:26	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/10/23 10:32	11/18/23 00:26	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/10/23 10:32	11/18/23 00:26	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/10/23 10:32	11/18/23 00:26	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/10/23 10:32	11/18/23 00:26	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/10/23 10:32	11/18/23 00:26	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/10/23 10:32	11/18/23 00:26	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/10/23 10:32	11/18/23 00:26	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/18/23 00:26	1
Pyridine	<0.725	U *	2.00	0.725	ug/L		11/10/23 10:32	11/18/23 00:26	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/10/23 10:32	11/18/23 00:26	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/10/23 10:32	11/18/23 00:26	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/10/23 10:32	11/18/23 00:26	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/10/23 10:32	11/18/23 00:26	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/10/23 10:32	11/18/23 00:26	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-85

Lab Sample ID: 860-61059-1

Date Collected: 11/07/23 09:21

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/10/23 10:32	11/18/23 00:26	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/10/23 10:32	11/18/23 00:26	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/10/23 10:32	11/18/23 00:26	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/10/23 10:32	11/18/23 00:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		31 - 132	11/10/23 10:32	11/18/23 00:26	1
2-Fluorobiphenyl	59		40 - 130	11/10/23 10:32	11/18/23 00:26	1
2-Fluorophenol (Surr)	39		21 - 114	11/10/23 10:32	11/18/23 00:26	1
Nitrobenzene-d5 (Surr)	57		37 - 130	11/10/23 10:32	11/18/23 00:26	1
Phenol-d5 (Surr)	26		16 - 117	11/10/23 10:32	11/18/23 00:26	1
p-Terphenyl-d14	85		20 - 141	11/10/23 10:32	11/18/23 00:26	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.161	U	0.612	0.161	ug/L		11/10/23 06:40	11/16/23 12:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	132		37 - 133				11/10/23 06:40	11/16/23 12:11	1

Client Sample ID: MW-86

Lab Sample ID: 860-61059-2

Date Collected: 11/07/23 09:40

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 00:07	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 00:07	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 00:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 00:07	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 00:07	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 00:07	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 00:07	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 00:07	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 00:07	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 00:07	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 00:07	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 00:07	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 00:07	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 00:07	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 00:07	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 00:07	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 00:07	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 00:07	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 00:07	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 00:07	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 00:07	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 00:07	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 00:07	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 00:07	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 00:07	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-86

Lab Sample ID: 860-61059-2

Date Collected: 11/07/23 09:40

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 00:07	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 00:07	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 00:07	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 00:07	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 00:07	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 00:07	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 00:07	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 00:07	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 00:07	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 00:07	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 00:07	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 00:07	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 00:07	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 00:07	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 00:07	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 00:07	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 00:07	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 00:07	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/10/23 00:07	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 00:07	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 00:07	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 00:07	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 00:07	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 00:07	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 00:07	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 00:07	1
Methyl tert-butyl ether	1.98	J	5.00	1.39	ug/L			11/10/23 00:07	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 00:07	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 00:07	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 00:07	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 00:07	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 00:07	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 00:07	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 00:07	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 00:07	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 00:07	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 00:07	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 00:07	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 00:07	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 00:07	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 00:07	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 00:07	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 00:07	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 00:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		11/10/23 00:07	1
4-Bromofluorobenzene (Surr)	98		74 - 124		11/10/23 00:07	1
Dibromofluoromethane (Surr)	103		75 - 131		11/10/23 00:07	1
Toluene-d8 (Surr)	99		80 - 120		11/10/23 00:07	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-86

Lab Sample ID: 860-61059-2

Date Collected: 11/07/23 09:40

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/10/23 10:32	11/18/23 00:47	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/10/23 10:32	11/18/23 00:47	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/10/23 10:32	11/18/23 00:47	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/10/23 10:32	11/18/23 00:47	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/10/23 10:32	11/18/23 00:47	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/10/23 10:32	11/18/23 00:47	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/10/23 10:32	11/18/23 00:47	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/10/23 10:32	11/18/23 00:47	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/10/23 10:32	11/18/23 00:47	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/10/23 10:32	11/18/23 00:47	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/10/23 10:32	11/18/23 00:47	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/10/23 10:32	11/18/23 00:47	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/10/23 10:32	11/18/23 00:47	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/10/23 10:32	11/18/23 00:47	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/10/23 10:32	11/18/23 00:47	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/18/23 00:47	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/10/23 10:32	11/18/23 00:47	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/10/23 10:32	11/18/23 00:47	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/18/23 00:47	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/10/23 10:32	11/18/23 00:47	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/10/23 10:32	11/18/23 00:47	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/10/23 10:32	11/18/23 00:47	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/10/23 10:32	11/18/23 00:47	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/10/23 10:32	11/18/23 00:47	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/18/23 00:47	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/10/23 10:32	11/18/23 00:47	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/10/23 10:32	11/18/23 00:47	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/10/23 10:32	11/18/23 00:47	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/10/23 10:32	11/18/23 00:47	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/10/23 10:32	11/18/23 00:47	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/10/23 10:32	11/18/23 00:47	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/10/23 10:32	11/18/23 00:47	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/10/23 10:32	11/18/23 00:47	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/10/23 10:32	11/18/23 00:47	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/10/23 10:32	11/18/23 00:47	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/10/23 10:32	11/18/23 00:47	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/10/23 10:32	11/18/23 00:47	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/10/23 10:32	11/18/23 00:47	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/10/23 10:32	11/18/23 00:47	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/10/23 10:32	11/18/23 00:47	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/10/23 10:32	11/18/23 00:47	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/10/23 10:32	11/18/23 00:47	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/10/23 10:32	11/18/23 00:47	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/10/23 10:32	11/18/23 00:47	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/10/23 10:32	11/18/23 00:47	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/10/23 10:32	11/18/23 00:47	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/10/23 10:32	11/18/23 00:47	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/10/23 10:32	11/18/23 00:47	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/10/23 10:32	11/18/23 00:47	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-86

Lab Sample ID: 860-61059-2

Date Collected: 11/07/23 09:40

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.154	U	2.00	0.154	ug/L		11/10/23 10:32	11/18/23 00:47	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/10/23 10:32	11/18/23 00:47	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/10/23 10:32	11/18/23 00:47	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/18/23 00:47	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/10/23 10:32	11/18/23 00:47	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/10/23 10:32	11/18/23 00:47	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/10/23 10:32	11/18/23 00:47	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/10/23 10:32	11/18/23 00:47	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/10/23 10:32	11/18/23 00:47	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/10/23 10:32	11/18/23 00:47	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/10/23 10:32	11/18/23 00:47	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/10/23 10:32	11/18/23 00:47	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/18/23 00:47	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/10/23 10:32	11/18/23 00:47	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/18/23 00:47	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/10/23 10:32	11/18/23 00:47	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/10/23 10:32	11/18/23 00:47	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/10/23 10:32	11/18/23 00:47	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/10/23 10:32	11/18/23 00:47	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/10/23 10:32	11/18/23 00:47	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/10/23 10:32	11/18/23 00:47	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/10/23 10:32	11/18/23 00:47	1
Diphenyl ether	4.54	J	8.00	0.364	ug/L		11/10/23 10:32	11/18/23 00:47	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/10/23 10:32	11/18/23 00:47	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/10/23 10:32	11/18/23 00:47	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/10/23 10:32	11/18/23 00:47	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/10/23 10:32	11/18/23 00:47	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/18/23 00:47	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/10/23 10:32	11/18/23 00:47	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/18/23 00:47	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/10/23 10:32	11/18/23 00:47	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/10/23 10:32	11/18/23 00:47	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/10/23 10:32	11/18/23 00:47	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/10/23 10:32	11/18/23 00:47	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/10/23 10:32	11/18/23 00:47	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/10/23 10:32	11/18/23 00:47	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/10/23 10:32	11/18/23 00:47	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/10/23 10:32	11/18/23 00:47	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/10/23 10:32	11/18/23 00:47	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/10/23 10:32	11/18/23 00:47	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/10/23 10:32	11/18/23 00:47	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/10/23 10:32	11/18/23 00:47	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/10/23 10:32	11/18/23 00:47	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/10/23 10:32	11/18/23 00:47	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/18/23 00:47	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/10/23 10:32	11/18/23 00:47	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/10/23 10:32	11/18/23 00:47	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/10/23 10:32	11/18/23 00:47	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/10/23 10:32	11/18/23 00:47	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-86

Lab Sample ID: 860-61059-2

Date Collected: 11/07/23 09:40

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/10/23 10:32	11/18/23 00:47	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/10/23 10:32	11/18/23 00:47	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/10/23 10:32	11/18/23 00:47	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/10/23 10:32	11/18/23 00:47	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/10/23 10:32	11/18/23 00:47	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/10/23 10:32	11/18/23 00:47	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/10/23 10:32	11/18/23 00:47	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/10/23 10:32	11/18/23 00:47	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/10/23 10:32	11/18/23 00:47	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/10/23 10:32	11/18/23 00:47	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/10/23 10:32	11/18/23 00:47	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/10/23 10:32	11/18/23 00:47	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/10/23 10:32	11/18/23 00:47	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/10/23 10:32	11/18/23 00:47	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/18/23 00:47	1
Pyridine	<0.725	U *	2.00	0.725	ug/L		11/10/23 10:32	11/18/23 00:47	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/10/23 10:32	11/18/23 00:47	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/10/23 10:32	11/18/23 00:47	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/10/23 10:32	11/18/23 00:47	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/10/23 10:32	11/18/23 00:47	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/10/23 10:32	11/18/23 00:47	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/10/23 10:32	11/18/23 00:47	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/10/23 10:32	11/18/23 00:47	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/10/23 10:32	11/18/23 00:47	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/10/23 10:32	11/18/23 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	105		31 - 132	11/10/23 10:32	11/18/23 00:47	1
2-Fluorobiphenyl	94		40 - 130	11/10/23 10:32	11/18/23 00:47	1
2-Fluorophenol (Surr)	66		21 - 114	11/10/23 10:32	11/18/23 00:47	1
Nitrobenzene-d5 (Surr)	91		37 - 130	11/10/23 10:32	11/18/23 00:47	1
Phenol-d5 (Surr)	42		16 - 117	11/10/23 10:32	11/18/23 00:47	1
p-Terphenyl-d14	115		20 - 141	11/10/23 10:32	11/18/23 00:47	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.161	U	0.612	0.161	ug/L		11/10/23 06:40	11/16/23 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	124		37 - 133	11/10/23 06:40	11/16/23 12:41	1

Client Sample ID: MW-87

Lab Sample ID: 860-61059-3

Date Collected: 11/07/23 10:04

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 00:28	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 00:28	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 00:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 00:28	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-87

Lab Sample ID: 860-61059-3

Date Collected: 11/07/23 10:04

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 00:28	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 00:28	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 00:28	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 00:28	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 00:28	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 00:28	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 00:28	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 00:28	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 00:28	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 00:28	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 00:28	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 00:28	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 00:28	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 00:28	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 00:28	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 00:28	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 00:28	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 00:28	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 00:28	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 00:28	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 00:28	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 00:28	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 00:28	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 00:28	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 00:28	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 00:28	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 00:28	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 00:28	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 00:28	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 00:28	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 00:28	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 00:28	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 00:28	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 00:28	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 00:28	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 00:28	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 00:28	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 00:28	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 00:28	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/10/23 00:28	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 00:28	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 00:28	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 00:28	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 00:28	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 00:28	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 00:28	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 00:28	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 00:28	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 00:28	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-87

Lab Sample ID: 860-61059-3

Date Collected: 11/07/23 10:04

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 00:28	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 00:28	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 00:28	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 00:28	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 00:28	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 00:28	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 00:28	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 00:28	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 00:28	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 00:28	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 00:28	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 00:28	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 00:28	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 00:28	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 00:28	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		11/10/23 00:28	1
4-Bromofluorobenzene (Surr)	112		74 - 124		11/10/23 00:28	1
Dibromofluoromethane (Surr)	100		75 - 131		11/10/23 00:28	1
Toluene-d8 (Surr)	90		80 - 120		11/10/23 00:28	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/10/23 10:33	11/18/23 01:08	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/10/23 10:33	11/18/23 01:08	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/10/23 10:33	11/18/23 01:08	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/10/23 10:33	11/18/23 01:08	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/10/23 10:33	11/18/23 01:08	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/10/23 10:33	11/18/23 01:08	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/10/23 10:33	11/18/23 01:08	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/10/23 10:33	11/18/23 01:08	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/10/23 10:33	11/18/23 01:08	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/10/23 10:33	11/18/23 01:08	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/10/23 10:33	11/18/23 01:08	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/10/23 10:33	11/18/23 01:08	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/10/23 10:33	11/18/23 01:08	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/10/23 10:33	11/18/23 01:08	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/10/23 10:33	11/18/23 01:08	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/10/23 10:33	11/18/23 01:08	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/10/23 10:33	11/18/23 01:08	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/10/23 10:33	11/18/23 01:08	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/10/23 10:33	11/18/23 01:08	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/10/23 10:33	11/18/23 01:08	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/10/23 10:33	11/18/23 01:08	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/10/23 10:33	11/18/23 01:08	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/10/23 10:33	11/18/23 01:08	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/10/23 10:33	11/18/23 01:08	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/10/23 10:33	11/18/23 01:08	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-87

Lab Sample ID: 860-61059-3

Date Collected: 11/07/23 10:04

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/10/23 10:33	11/18/23 01:08	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/10/23 10:33	11/18/23 01:08	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/10/23 10:33	11/18/23 01:08	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/10/23 10:33	11/18/23 01:08	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/10/23 10:33	11/18/23 01:08	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/10/23 10:33	11/18/23 01:08	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/10/23 10:33	11/18/23 01:08	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/10/23 10:33	11/18/23 01:08	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/10/23 10:33	11/18/23 01:08	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/10/23 10:33	11/18/23 01:08	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/10/23 10:33	11/18/23 01:08	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/10/23 10:33	11/18/23 01:08	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/10/23 10:33	11/18/23 01:08	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/10/23 10:33	11/18/23 01:08	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/10/23 10:33	11/18/23 01:08	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/10/23 10:33	11/18/23 01:08	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/10/23 10:33	11/18/23 01:08	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/10/23 10:33	11/18/23 01:08	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/10/23 10:33	11/18/23 01:08	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/10/23 10:33	11/18/23 01:08	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/10/23 10:33	11/18/23 01:08	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/10/23 10:33	11/18/23 01:08	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/10/23 10:33	11/18/23 01:08	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/10/23 10:33	11/18/23 01:08	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/10/23 10:33	11/18/23 01:08	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/10/23 10:33	11/18/23 01:08	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/10/23 10:33	11/18/23 01:08	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:33	11/18/23 01:08	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/10/23 10:33	11/18/23 01:08	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/10/23 10:33	11/18/23 01:08	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/10/23 10:33	11/18/23 01:08	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/10/23 10:33	11/18/23 01:08	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/10/23 10:33	11/18/23 01:08	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/10/23 10:33	11/18/23 01:08	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/10/23 10:33	11/18/23 01:08	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/10/23 10:33	11/18/23 01:08	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:33	11/18/23 01:08	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/10/23 10:33	11/18/23 01:08	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:33	11/18/23 01:08	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/10/23 10:33	11/18/23 01:08	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/10/23 10:33	11/18/23 01:08	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/10/23 10:33	11/18/23 01:08	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/10/23 10:33	11/18/23 01:08	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/10/23 10:33	11/18/23 01:08	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/10/23 10:33	11/18/23 01:08	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/10/23 10:33	11/18/23 01:08	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/10/23 10:33	11/18/23 01:08	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/10/23 10:33	11/18/23 01:08	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/10/23 10:33	11/18/23 01:08	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-87

Lab Sample ID: 860-61059-3

Date Collected: 11/07/23 10:04

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/10/23 10:33	11/18/23 01:08	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/10/23 10:33	11/18/23 01:08	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:33	11/18/23 01:08	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/10/23 10:33	11/18/23 01:08	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/10/23 10:33	11/18/23 01:08	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/10/23 10:33	11/18/23 01:08	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/10/23 10:33	11/18/23 01:08	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/10/23 10:33	11/18/23 01:08	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/10/23 10:33	11/18/23 01:08	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/10/23 10:33	11/18/23 01:08	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/10/23 10:33	11/18/23 01:08	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/10/23 10:33	11/18/23 01:08	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/10/23 10:33	11/18/23 01:08	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/10/23 10:33	11/18/23 01:08	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/10/23 10:33	11/18/23 01:08	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/10/23 10:33	11/18/23 01:08	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/10/23 10:33	11/18/23 01:08	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/10/23 10:33	11/18/23 01:08	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/10/23 10:33	11/18/23 01:08	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/10/23 10:33	11/18/23 01:08	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/10/23 10:33	11/18/23 01:08	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/10/23 10:33	11/18/23 01:08	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/10/23 10:33	11/18/23 01:08	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/10/23 10:33	11/18/23 01:08	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/10/23 10:33	11/18/23 01:08	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/10/23 10:33	11/18/23 01:08	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/10/23 10:33	11/18/23 01:08	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/10/23 10:33	11/18/23 01:08	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/10/23 10:33	11/18/23 01:08	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/10/23 10:33	11/18/23 01:08	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/10/23 10:33	11/18/23 01:08	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/10/23 10:33	11/18/23 01:08	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/10/23 10:33	11/18/23 01:08	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/10/23 10:33	11/18/23 01:08	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/10/23 10:33	11/18/23 01:08	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/10/23 10:33	11/18/23 01:08	1
p-Phenylene diamine	<10.0	U *-	10.0	10.0	ug/L		11/10/23 10:33	11/18/23 01:08	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/10/23 10:33	11/18/23 01:08	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:33	11/18/23 01:08	1
Pyridine	<0.725	U *-	2.00	0.725	ug/L		11/10/23 10:33	11/18/23 01:08	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/10/23 10:33	11/18/23 01:08	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/10/23 10:33	11/18/23 01:08	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/10/23 10:33	11/18/23 01:08	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/10/23 10:33	11/18/23 01:08	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/10/23 10:33	11/18/23 01:08	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/10/23 10:33	11/18/23 01:08	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/10/23 10:33	11/18/23 01:08	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/10/23 10:33	11/18/23 01:08	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/10/23 10:33	11/18/23 01:08	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-87

Date Collected: 11/07/23 10:04

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61059-3

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		31 - 132	11/10/23 10:33	11/18/23 01:08	1
2-Fluorobiphenyl	77		40 - 130	11/10/23 10:33	11/18/23 01:08	1
2-Fluorophenol (Surr)	43		21 - 114	11/10/23 10:33	11/18/23 01:08	1
Nitrobenzene-d5 (Surr)	65		37 - 130	11/10/23 10:33	11/18/23 01:08	1
Phenol-d5 (Surr)	30		16 - 117	11/10/23 10:33	11/18/23 01:08	1
p-Terphenyl-d14	108		20 - 141	11/10/23 10:33	11/18/23 01:08	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.159	U	0.606	0.159	ug/L		11/10/23 06:40	11/16/23 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	134	S1+	37 - 133	11/10/23 06:40	11/16/23 13:11	1

Client Sample ID: MW-79

Date Collected: 11/07/23 10:41

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61059-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 00:48	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 00:48	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 00:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 00:48	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 00:48	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 00:48	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 00:48	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 00:48	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 00:48	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 00:48	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 00:48	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 00:48	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 00:48	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 00:48	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 00:48	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 00:48	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 00:48	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 00:48	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 00:48	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 00:48	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 00:48	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 00:48	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 00:48	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 00:48	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 00:48	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 00:48	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 00:48	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 00:48	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 00:48	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 00:48	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 00:48	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-79

Lab Sample ID: 860-61059-4

Date Collected: 11/07/23 10:41

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 00:48	1
Chlorobenzene	9.88		1.00	0.455	ug/L			11/10/23 00:48	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 00:48	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 00:48	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 00:48	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 00:48	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 00:48	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 00:48	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 00:48	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 00:48	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 00:48	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 00:48	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/10/23 00:48	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 00:48	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 00:48	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 00:48	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 00:48	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 00:48	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 00:48	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 00:48	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 00:48	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 00:48	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 00:48	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 00:48	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 00:48	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 00:48	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 00:48	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 00:48	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 00:48	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 00:48	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 00:48	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 00:48	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 00:48	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 00:48	1
Vinyl chloride	0.813	J	2.00	0.428	ug/L			11/10/23 00:48	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 00:48	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 00:48	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 00:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 144		11/10/23 00:48	1
4-Bromofluorobenzene (Surr)	118		74 - 124		11/10/23 00:48	1
Dibromofluoromethane (Surr)	93		75 - 131		11/10/23 00:48	1
Toluene-d8 (Surr)	93		80 - 120		11/10/23 00:48	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<2.14	U	10.0	2.14	ug/L		11/13/23 09:25	11/16/23 21:01	5
1,2,4,5-Tetrachlorobenzene	<3.36	U	10.0	3.36	ug/L		11/13/23 09:25	11/16/23 21:01	5
1,2,4-Trichlorobenzene	<3.40	U	10.0	3.40	ug/L		11/13/23 09:25	11/16/23 21:01	5

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-79

Lab Sample ID: 860-61059-4

Date Collected: 11/07/23 10:41

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.48	U	10.0	1.48	ug/L		11/13/23 09:25	11/16/23 21:01	5
1,3,5-Trinitrobenzene	<7.15	U	10.0	7.15	ug/L		11/13/23 09:25	11/16/23 21:01	5
1,3-Dichlorobenzene	<1.75	U	10.0	1.75	ug/L		11/13/23 09:25	11/16/23 21:01	5
1,3-Dinitrobenzene	<0.560	U	10.0	0.560	ug/L		11/13/23 09:25	11/16/23 21:01	5
1,4-Dichlorobenzene	<2.14	U	10.0	2.14	ug/L		11/13/23 09:25	11/16/23 21:01	5
1,4-Naphthoquinone	<9.25	U	40.0	9.25	ug/L		11/13/23 09:25	11/16/23 21:01	5
1-Naphthylamine	<1.16	U	10.0	1.16	ug/L		11/13/23 09:25	11/16/23 21:01	5
2,2'-oxybis[1-chloropropane]	<0.695	U	10.0	0.695	ug/L		11/13/23 09:25	11/16/23 21:01	5
2,3,4,6-Tetrachlorophenol	<0.871	U	10.0	0.871	ug/L		11/13/23 09:25	11/16/23 21:01	5
2,4,5-Trichlorophenol	<0.541	U	10.0	0.541	ug/L		11/13/23 09:25	11/16/23 21:01	5
2,4,6-Trichlorophenol	<0.676	U	10.0	0.676	ug/L		11/13/23 09:25	11/16/23 21:01	5
2,4-Dichlorophenol	<0.573	U	10.0	0.573	ug/L		11/13/23 09:25	11/16/23 21:01	5
2,4-Dimethylphenol	<0.738	U	10.0	0.738	ug/L		11/13/23 09:25	11/16/23 21:01	5
2,4-Dinitrophenol	<7.28	U	40.0	7.28	ug/L		11/13/23 09:25	11/16/23 21:01	5
2,4-Dinitrotoluene	<0.635	U	10.0	0.635	ug/L		11/13/23 09:25	11/16/23 21:01	5
2,6-Dichlorophenol	<0.628	U	10.0	0.628	ug/L		11/13/23 09:25	11/16/23 21:01	5
2,6-Dinitrotoluene	<0.993	U	10.0	0.993	ug/L		11/13/23 09:25	11/16/23 21:01	5
2-Acetylaminofluorene	<7.60	U	40.0	7.60	ug/L		11/13/23 09:25	11/16/23 21:01	5
2-Chloronaphthalene	<5.44	U	40.0	5.44	ug/L		11/13/23 09:25	11/16/23 21:01	5
2-Chlorophenol	<0.0676	U	10.0	0.0676	ug/L		11/13/23 09:25	11/16/23 21:01	5
2-Methylnaphthalene	<2.40	U	10.0	2.40	ug/L		11/13/23 09:25	11/16/23 21:01	5
2-Methylphenol	<0.797	U	10.0	0.797	ug/L		11/13/23 09:25	11/16/23 21:01	5
2-Naphthylamine	<2.98	U	40.0	2.98	ug/L		11/13/23 09:25	11/16/23 21:01	5
2-Nitroaniline	<0.814	U	20.0	0.814	ug/L		11/13/23 09:25	11/16/23 21:01	5
2-Nitrophenol	<0.674	U	10.0	0.674	ug/L		11/13/23 09:25	11/16/23 21:01	5
2-Picoline	<1.08	U	10.0	1.08	ug/L		11/13/23 09:25	11/16/23 21:01	5
2-Toluidine	<4.67	U	40.0	4.67	ug/L		11/13/23 09:25	11/16/23 21:01	5
3 & 4 Methylphenol	<0.814	U	10.0	0.814	ug/L		11/13/23 09:25	11/16/23 21:01	5
3,3'-Dichlorobenzidine	<1.10	U	20.0	1.10	ug/L		11/13/23 09:25	11/16/23 21:01	5
3,3'-Dimethylbenzidine	<2.22	U *	40.0	2.22	ug/L		11/13/23 09:25	11/16/23 21:01	5
3-Methylcholanthrene	<0.793	U	40.0	0.793	ug/L		11/13/23 09:25	11/16/23 21:01	5
3-Nitroaniline	<1.72	U	10.0	1.72	ug/L		11/13/23 09:25	11/16/23 21:01	5
4,6-Dinitro-2-methylphenol	<3.68	U	40.0	3.68	ug/L		11/13/23 09:25	11/16/23 21:01	5
4-Aminobiphenyl	<1.48	U	40.0	1.48	ug/L		11/13/23 09:25	11/16/23 21:01	5
4-Bromophenyl phenyl ether	<0.836	U	10.0	0.836	ug/L		11/13/23 09:25	11/16/23 21:01	5
4-Chloro-3-methylphenol	<0.784	U	10.0	0.784	ug/L		11/13/23 09:25	11/16/23 21:01	5
4-Chloroaniline	<0.745	U	20.0	0.745	ug/L		11/13/23 09:25	11/16/23 21:01	5
4-Chlorophenyl phenyl ether	<1.16	U	10.0	1.16	ug/L		11/13/23 09:25	11/16/23 21:01	5
4-Nitroaniline	<1.23	U	20.0	1.23	ug/L		11/13/23 09:25	11/16/23 21:01	5
4-Nitroquinoline-1-oxide	<10.8	U	20.0	10.8	ug/L		11/13/23 09:25	11/16/23 21:01	5
7,12-Dimethylbenz(a)anthracene	<0.305	U	40.0	0.305	ug/L		11/13/23 09:25	11/16/23 21:01	5
Acenaphthene	<1.04	U	10.0	1.04	ug/L		11/13/23 09:25	11/16/23 21:01	5
Acenaphthylene	<1.07	U	10.0	1.07	ug/L		11/13/23 09:25	11/16/23 21:01	5
Acetophenone	<1.12	U	20.0	1.12	ug/L		11/13/23 09:25	11/16/23 21:01	5
alpha,alpha-Dimethyl phenethylamine	<20.0	U	20.0	20.0	ug/L		11/13/23 09:25	11/16/23 21:01	5
Aniline	<1.57	U	20.0	1.57	ug/L		11/13/23 09:25	11/16/23 21:01	5
Anthracene	<0.769	U	10.0	0.769	ug/L		11/13/23 09:25	11/16/23 21:01	5
Aramite, Total	<3.35	U	20.0	3.35	ug/L		11/13/23 09:25	11/16/23 21:01	5
Benzo[a]anthracene	<0.750	U	10.0	0.750	ug/L		11/13/23 09:25	11/16/23 21:01	5

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-79

Lab Sample ID: 860-61059-4

Date Collected: 11/07/23 10:41

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.738	U	10.0	0.738	ug/L		11/13/23 09:25	11/16/23 21:01	5
Benzo[b]fluoranthene	<1.05	U	10.0	1.05	ug/L		11/13/23 09:25	11/16/23 21:01	5
Benzo[g,h,i]perylene	<0.714	U	10.0	0.714	ug/L		11/13/23 09:25	11/16/23 21:01	5
Benzo[k]fluoranthene	<0.831	U	10.0	0.831	ug/L		11/13/23 09:25	11/16/23 21:01	5
Benzyl alcohol	<22.5	U	40.0	22.5	ug/L		11/13/23 09:25	11/16/23 21:01	5
Bis(2-chloroethoxy)methane	<0.850	U	10.0	0.850	ug/L		11/13/23 09:25	11/16/23 21:01	5
Bis(2-chloroethyl)ether	<1.39	U	10.0	1.39	ug/L		11/13/23 09:25	11/16/23 21:01	5
Bis(2-ethylhexyl) phthalate	<1.12	U	10.0	1.12	ug/L		11/13/23 09:25	11/16/23 21:01	5
Butyl benzyl phthalate	<0.750	U	10.0	0.750	ug/L		11/13/23 09:25	11/16/23 21:01	5
Chrysene	<0.797	U	10.0	0.797	ug/L		11/13/23 09:25	11/16/23 21:01	5
Diallate	<3.01	U	40.0	3.01	ug/L		11/13/23 09:25	11/16/23 21:01	5
Dibenz(a,h)anthracene	<0.738	U	10.0	0.738	ug/L		11/13/23 09:25	11/16/23 21:01	5
Dibenzofuran	<1.68	U	10.0	1.68	ug/L		11/13/23 09:25	11/16/23 21:01	5
Diethyl phthalate	<0.589	U	10.0	0.589	ug/L		11/13/23 09:25	11/16/23 21:01	5
Dimethoate	<8.49	U	40.0	8.49	ug/L		11/13/23 09:25	11/16/23 21:01	5
Dimethyl phthalate	<0.713	U	10.0	0.713	ug/L		11/13/23 09:25	11/16/23 21:01	5
Di-n-butyl phthalate	<4.00	U	10.0	4.00	ug/L		11/13/23 09:25	11/16/23 21:01	5
Di-n-octyl phthalate	<0.846	U	10.0	0.846	ug/L		11/13/23 09:25	11/16/23 21:01	5
Dinoseb	<10.0	U	20.0	10.0	ug/L		11/13/23 09:25	11/16/23 21:01	5
Diphenyl ether	193		40.0	1.82	ug/L		11/13/23 09:25	11/16/23 21:01	5
Disulfoton	<6.96	U	40.0	6.96	ug/L		11/13/23 09:25	11/16/23 21:01	5
Ethyl methanesulfonate	<6.91	U	20.0	6.91	ug/L		11/13/23 09:25	11/16/23 21:01	5
Ethyl Parathion	<7.07	U	20.0	7.07	ug/L		11/13/23 09:25	11/16/23 21:01	5
Famphur	<40.0	U	40.0	40.0	ug/L		11/13/23 09:25	11/16/23 21:01	5
Fluoranthene	<0.738	U	10.0	0.738	ug/L		11/13/23 09:25	11/16/23 21:01	5
Fluorene	<1.03	U	10.0	1.03	ug/L		11/13/23 09:25	11/16/23 21:01	5
Hexachlorobenzene	<0.628	U	10.0	0.628	ug/L		11/13/23 09:25	11/16/23 21:01	5
Hexachlorobutadiene	<1.26	U	10.0	1.26	ug/L		11/13/23 09:25	11/16/23 21:01	5
Hexachlorocyclopentadiene	<2.16	U	10.0	2.16	ug/L		11/13/23 09:25	11/16/23 21:01	5
Hexachloroethane	<0.700	U	10.0	0.700	ug/L		11/13/23 09:25	11/16/23 21:01	5
Hexachloropropene	<1.07	U	20.0	1.07	ug/L		11/13/23 09:25	11/16/23 21:01	5
Indeno[1,2,3-cd]pyrene	<4.26	U	10.0	4.26	ug/L		11/13/23 09:25	11/16/23 21:01	5
Isophorone	<0.840	U	10.0	0.840	ug/L		11/13/23 09:25	11/16/23 21:01	5
Isosafrole	<12.3	U	30.0	12.3	ug/L		11/13/23 09:25	11/16/23 21:01	5
Methapyrilene	<0.905	U	10.0	0.905	ug/L		11/13/23 09:25	11/16/23 21:01	5
Methyl methanesulfonate	<0.305	U	10.0	0.305	ug/L		11/13/23 09:25	11/16/23 21:01	5
Methyl parathion	<8.22	U	20.0	8.22	ug/L		11/13/23 09:25	11/16/23 21:01	5
Naphthalene	<2.11	U	10.0	2.11	ug/L		11/13/23 09:25	11/16/23 21:01	5
Nitrobenzene	<4.67	U	10.0	4.67	ug/L		11/13/23 09:25	11/16/23 21:01	5
N-Nitro-o-toluidine	<6.55	U	40.0	6.55	ug/L		11/13/23 09:25	11/16/23 21:01	5
N-Nitrosodiethylamine	<7.70	U	20.0	7.70	ug/L		11/13/23 09:25	11/16/23 21:01	5
N-Nitrosodimethylamine	<0.628	U	10.0	0.628	ug/L		11/13/23 09:25	11/16/23 21:01	5
N-Nitrosodi-n-butylamine	<7.70	U	10.0	7.70	ug/L		11/13/23 09:25	11/16/23 21:01	5
N-Nitrosodi-n-propylamine	<0.807	U	10.0	0.807	ug/L		11/13/23 09:25	11/16/23 21:01	5
N-Nitrosodiphenylamine	<0.773	U	10.0	0.773	ug/L		11/13/23 09:25	11/16/23 21:01	5
N-Nitrosomethylethylamine	<0.994	U	10.0	0.994	ug/L		11/13/23 09:25	11/16/23 21:01	5
N-Nitrosomorpholine	<7.21	U	20.0	7.21	ug/L		11/13/23 09:25	11/16/23 21:01	5
N-Nitrosopiperidine	<7.20	U	20.0	7.20	ug/L		11/13/23 09:25	11/16/23 21:01	5
N-Nitrosopyrrolidine	<6.90	U	20.0	6.90	ug/L		11/13/23 09:25	11/16/23 21:01	5

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-79

Lab Sample ID: 860-61059-4

Date Collected: 11/07/23 10:41

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o,o',o"-Triethylphosphorothioate	<0.290	U	40.0	0.290	ug/L		11/13/23 09:25	11/16/23 21:01	5
p-Dimethylamino azobenzene	<0.290	U	40.0	0.290	ug/L		11/13/23 09:25	11/16/23 21:01	5
Pentachlorobenzene	<5.91	U	10.0	5.91	ug/L		11/13/23 09:25	11/16/23 21:01	5
Pentachloronitrobenzene	<6.33	U	10.0	6.33	ug/L		11/13/23 09:25	11/16/23 21:01	5
Pentachlorophenol	<2.20	U	10.0	2.20	ug/L		11/13/23 09:25	11/16/23 21:01	5
Phenacetin	<6.62	U	40.0	6.62	ug/L		11/13/23 09:25	11/16/23 21:01	5
Phenanthrene	<0.882	U	10.0	0.882	ug/L		11/13/23 09:25	11/16/23 21:01	5
Phenol	1.51	J	20.0	1.01	ug/L		11/13/23 09:25	11/16/23 21:01	5
Phorate	<6.99	U	40.0	6.99	ug/L		11/13/23 09:25	11/16/23 21:01	5
p-Phenylene diamine	<50.0	U *	50.0	50.0	ug/L		11/13/23 09:25	11/16/23 21:01	5
Pronamide	<6.93	U	20.0	6.93	ug/L		11/13/23 09:25	11/16/23 21:01	5
Pyrene	<0.797	U	10.0	0.797	ug/L		11/13/23 09:25	11/16/23 21:01	5
Pyridine	<3.62	U	10.0	3.62	ug/L		11/13/23 09:25	11/16/23 21:01	5
Safrole, Total	<0.916	U	20.0	0.916	ug/L		11/13/23 09:25	11/16/23 21:01	5
Sulfotepp	<7.16	U	20.0	7.16	ug/L		11/13/23 09:25	11/16/23 21:01	5
Thionazin	<7.18	U	40.0	7.18	ug/L		11/13/23 09:25	11/16/23 21:01	5
Aramite Peak 2	<13.7	U	20.0	13.7	ug/L		11/13/23 09:25	11/16/23 21:01	5
Isosafrole Peak 1	<12.3	U	30.0	12.3	ug/L		11/13/23 09:25	11/16/23 21:01	5
Diallate Peak 2	<3.01	U	40.0	3.01	ug/L		11/13/23 09:25	11/16/23 21:01	5
Isosafrole Peak 2	<10.6	U	30.0	10.6	ug/L		11/13/23 09:25	11/16/23 21:01	5
Diallate Peak 1	<3.37	U	40.0	3.37	ug/L		11/13/23 09:25	11/16/23 21:01	5
Aramite Peak 1	<3.35	U	20.0	3.35	ug/L		11/13/23 09:25	11/16/23 21:01	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		31 - 132	11/13/23 09:25	11/16/23 21:01	5
2-Fluorobiphenyl	67		40 - 130	11/13/23 09:25	11/16/23 21:01	5
2-Fluorophenol (Surr)	38		21 - 114	11/13/23 09:25	11/16/23 21:01	5
Nitrobenzene-d5 (Surr)	59		37 - 130	11/13/23 09:25	11/16/23 21:01	5
Phenol-d5 (Surr)	23		16 - 117	11/13/23 09:25	11/16/23 21:01	5
p-Terphenyl-d14	87		20 - 141	11/13/23 09:25	11/16/23 21:01	5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.74		0.599	0.157	ug/L		11/10/23 06:40	11/16/23 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	124		37 - 133	11/10/23 06:40	11/16/23 13:41	1

Client Sample ID: MW-39

Lab Sample ID: 860-61059-5

Date Collected: 11/07/23 11:40

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 01:09	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 01:09	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 01:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 01:09	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 01:09	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 01:09	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 01:09	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-39

Lab Sample ID: 860-61059-5

Date Collected: 11/07/23 11:40

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 01:09	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 01:09	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 01:09	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 01:09	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 01:09	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 01:09	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 01:09	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 01:09	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 01:09	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 01:09	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 01:09	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 01:09	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 01:09	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 01:09	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 01:09	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 01:09	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 01:09	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 01:09	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 01:09	1
Benzene	3.80		1.00	0.460	ug/L			11/10/23 01:09	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 01:09	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 01:09	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 01:09	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 01:09	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 01:09	1
Chlorobenzene	9.16		1.00	0.455	ug/L			11/10/23 01:09	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 01:09	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 01:09	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 01:09	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 01:09	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 01:09	1
cis-1,2-Dichloroethene	0.507	J	1.00	0.457	ug/L			11/10/23 01:09	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 01:09	1
Cumene (isopropylbenzene)	1.12		1.00	0.592	ug/L			11/10/23 01:09	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 01:09	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 01:09	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/10/23 01:09	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 01:09	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 01:09	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 01:09	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 01:09	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 01:09	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 01:09	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 01:09	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 01:09	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 01:09	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 01:09	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 01:09	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 01:09	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-39

Lab Sample ID: 860-61059-5

Date Collected: 11/07/23 11:40

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 01:09	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 01:09	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 01:09	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 01:09	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 01:09	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 01:09	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 01:09	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 01:09	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 01:09	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 01:09	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 01:09	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 01:09	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 01:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		63 - 144		11/10/23 01:09	1
4-Bromofluorobenzene (Surr)	88		74 - 124		11/10/23 01:09	1
Dibromofluoromethane (Surr)	94		75 - 131		11/10/23 01:09	1
Toluene-d8 (Surr)	95		80 - 120		11/10/23 01:09	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<2.14	U	10.0	2.14	ug/L		11/13/23 09:26	11/16/23 21:21	5
1,2,4,5-Tetrachlorobenzene	<3.36	U	10.0	3.36	ug/L		11/13/23 09:26	11/16/23 21:21	5
1,2,4-Trichlorobenzene	<3.40	U	10.0	3.40	ug/L		11/13/23 09:26	11/16/23 21:21	5
1,2-Dichlorobenzene	<1.48	U	10.0	1.48	ug/L		11/13/23 09:26	11/16/23 21:21	5
1,3,5-Trinitrobenzene	<7.15	U	10.0	7.15	ug/L		11/13/23 09:26	11/16/23 21:21	5
1,3-Dichlorobenzene	<1.75	U	10.0	1.75	ug/L		11/13/23 09:26	11/16/23 21:21	5
1,3-Dinitrobenzene	<0.560	U	10.0	0.560	ug/L		11/13/23 09:26	11/16/23 21:21	5
1,4-Dichlorobenzene	<2.14	U	10.0	2.14	ug/L		11/13/23 09:26	11/16/23 21:21	5
1,4-Naphthoquinone	<9.25	U	40.0	9.25	ug/L		11/13/23 09:26	11/16/23 21:21	5
1-Naphthylamine	<1.16	U	10.0	1.16	ug/L		11/13/23 09:26	11/16/23 21:21	5
2,2'-oxybis[1-chloropropane]	<0.695	U	10.0	0.695	ug/L		11/13/23 09:26	11/16/23 21:21	5
2,3,4,6-Tetrachlorophenol	<0.871	U	10.0	0.871	ug/L		11/13/23 09:26	11/16/23 21:21	5
2,4,5-Trichlorophenol	<0.541	U	10.0	0.541	ug/L		11/13/23 09:26	11/16/23 21:21	5
2,4,6-Trichlorophenol	<0.676	U	10.0	0.676	ug/L		11/13/23 09:26	11/16/23 21:21	5
2,4-Dichlorophenol	<0.573	U	10.0	0.573	ug/L		11/13/23 09:26	11/16/23 21:21	5
2,4-Dimethylphenol	<0.738	U	10.0	0.738	ug/L		11/13/23 09:26	11/16/23 21:21	5
2,4-Dinitrophenol	<7.28	U	40.0	7.28	ug/L		11/13/23 09:26	11/16/23 21:21	5
2,4-Dinitrotoluene	<0.635	U	10.0	0.635	ug/L		11/13/23 09:26	11/16/23 21:21	5
2,6-Dichlorophenol	<0.628	U	10.0	0.628	ug/L		11/13/23 09:26	11/16/23 21:21	5
2,6-Dinitrotoluene	<0.993	U	10.0	0.993	ug/L		11/13/23 09:26	11/16/23 21:21	5
2-Acetylaminofluorene	<7.60	U	40.0	7.60	ug/L		11/13/23 09:26	11/16/23 21:21	5
2-Chloronaphthalene	<5.44	U	40.0	5.44	ug/L		11/13/23 09:26	11/16/23 21:21	5
2-Chlorophenol	<0.0676	U	10.0	0.0676	ug/L		11/13/23 09:26	11/16/23 21:21	5
2-Methylnaphthalene	<2.40	U	10.0	2.40	ug/L		11/13/23 09:26	11/16/23 21:21	5
2-Methylphenol	<0.797	U	10.0	0.797	ug/L		11/13/23 09:26	11/16/23 21:21	5
2-Naphthylamine	<2.98	U	40.0	2.98	ug/L		11/13/23 09:26	11/16/23 21:21	5
2-Nitroaniline	<0.814	U	20.0	0.814	ug/L		11/13/23 09:26	11/16/23 21:21	5
2-Nitrophenol	<0.674	U	10.0	0.674	ug/L		11/13/23 09:26	11/16/23 21:21	5

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-39

Lab Sample ID: 860-61059-5

Date Collected: 11/07/23 11:40

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	<1.08	U	10.0	1.08	ug/L		11/13/23 09:26	11/16/23 21:21	5
2-Toluidine	<4.67	U	40.0	4.67	ug/L		11/13/23 09:26	11/16/23 21:21	5
3 & 4 Methylphenol	<0.814	U	10.0	0.814	ug/L		11/13/23 09:26	11/16/23 21:21	5
3,3'-Dichlorobenzidine	<1.10	U	20.0	1.10	ug/L		11/13/23 09:26	11/16/23 21:21	5
3,3'-Dimethylbenzidine	<2.22	U *	40.0	2.22	ug/L		11/13/23 09:26	11/16/23 21:21	5
3-Methylcholanthrene	<0.793	U	40.0	0.793	ug/L		11/13/23 09:26	11/16/23 21:21	5
3-Nitroaniline	<1.72	U	10.0	1.72	ug/L		11/13/23 09:26	11/16/23 21:21	5
4,6-Dinitro-2-methylphenol	<3.68	U	40.0	3.68	ug/L		11/13/23 09:26	11/16/23 21:21	5
4-Aminobiphenyl	<1.48	U	40.0	1.48	ug/L		11/13/23 09:26	11/16/23 21:21	5
4-Bromophenyl phenyl ether	<0.836	U	10.0	0.836	ug/L		11/13/23 09:26	11/16/23 21:21	5
4-Chloro-3-methylphenol	<0.784	U	10.0	0.784	ug/L		11/13/23 09:26	11/16/23 21:21	5
4-Chloroaniline	<0.745	U	20.0	0.745	ug/L		11/13/23 09:26	11/16/23 21:21	5
4-Chlorophenyl phenyl ether	<1.16	U	10.0	1.16	ug/L		11/13/23 09:26	11/16/23 21:21	5
4-Nitroaniline	<1.23	U	20.0	1.23	ug/L		11/13/23 09:26	11/16/23 21:21	5
4-Nitroquinoline-1-oxide	<10.8	U	20.0	10.8	ug/L		11/13/23 09:26	11/16/23 21:21	5
7,12-Dimethylbenz(a)anthracene	<0.305	U	40.0	0.305	ug/L		11/13/23 09:26	11/16/23 21:21	5
Acenaphthene	<1.04	U	10.0	1.04	ug/L		11/13/23 09:26	11/16/23 21:21	5
Acenaphthylene	<1.07	U	10.0	1.07	ug/L		11/13/23 09:26	11/16/23 21:21	5
Acetophenone	<1.12	U	20.0	1.12	ug/L		11/13/23 09:26	11/16/23 21:21	5
alpha,alpha-Dimethyl phenethylamine	<20.0	U	20.0	20.0	ug/L		11/13/23 09:26	11/16/23 21:21	5
Aniline	<1.57	U	20.0	1.57	ug/L		11/13/23 09:26	11/16/23 21:21	5
Anthracene	<0.769	U	10.0	0.769	ug/L		11/13/23 09:26	11/16/23 21:21	5
Aramite, Total	<3.35	U	20.0	3.35	ug/L		11/13/23 09:26	11/16/23 21:21	5
Benzo[a]anthracene	<0.750	U	10.0	0.750	ug/L		11/13/23 09:26	11/16/23 21:21	5
Benzo[a]pyrene	<0.738	U	10.0	0.738	ug/L		11/13/23 09:26	11/16/23 21:21	5
Benzo[b]fluoranthene	<1.05	U	10.0	1.05	ug/L		11/13/23 09:26	11/16/23 21:21	5
Benzo[g,h,i]perylene	<0.714	U	10.0	0.714	ug/L		11/13/23 09:26	11/16/23 21:21	5
Benzo[k]fluoranthene	<0.831	U	10.0	0.831	ug/L		11/13/23 09:26	11/16/23 21:21	5
Benzyl alcohol	<22.5	U	40.0	22.5	ug/L		11/13/23 09:26	11/16/23 21:21	5
Bis(2-chloroethoxy)methane	<0.850	U	10.0	0.850	ug/L		11/13/23 09:26	11/16/23 21:21	5
Bis(2-chloroethyl)ether	<1.39	U	10.0	1.39	ug/L		11/13/23 09:26	11/16/23 21:21	5
Bis(2-ethylhexyl) phthalate	<1.12	U	10.0	1.12	ug/L		11/13/23 09:26	11/16/23 21:21	5
Butyl benzyl phthalate	<0.750	U	10.0	0.750	ug/L		11/13/23 09:26	11/16/23 21:21	5
Chrysene	<0.797	U	10.0	0.797	ug/L		11/13/23 09:26	11/16/23 21:21	5
Diallate	<3.01	U	40.0	3.01	ug/L		11/13/23 09:26	11/16/23 21:21	5
Dibenz(a,h)anthracene	<0.738	U	10.0	0.738	ug/L		11/13/23 09:26	11/16/23 21:21	5
Dibenzofuran	<1.68	U	10.0	1.68	ug/L		11/13/23 09:26	11/16/23 21:21	5
Diethyl phthalate	<0.589	U	10.0	0.589	ug/L		11/13/23 09:26	11/16/23 21:21	5
Dimethoate	<8.49	U	40.0	8.49	ug/L		11/13/23 09:26	11/16/23 21:21	5
Dimethyl phthalate	<0.713	U	10.0	0.713	ug/L		11/13/23 09:26	11/16/23 21:21	5
Di-n-butyl phthalate	<4.00	U	10.0	4.00	ug/L		11/13/23 09:26	11/16/23 21:21	5
Di-n-octyl phthalate	<0.846	U	10.0	0.846	ug/L		11/13/23 09:26	11/16/23 21:21	5
Dinoseb	<10.0	U	20.0	10.0	ug/L		11/13/23 09:26	11/16/23 21:21	5
Diphenyl ether	109		40.0	1.82	ug/L		11/13/23 09:26	11/16/23 21:21	5
Disulfoton	<6.96	U	40.0	6.96	ug/L		11/13/23 09:26	11/16/23 21:21	5
Ethyl methanesulfonate	<6.91	U	20.0	6.91	ug/L		11/13/23 09:26	11/16/23 21:21	5
Ethyl Parathion	<7.07	U	20.0	7.07	ug/L		11/13/23 09:26	11/16/23 21:21	5
Famphur	<40.0	U	40.0	40.0	ug/L		11/13/23 09:26	11/16/23 21:21	5
Fluoranthene	<0.738	U	10.0	0.738	ug/L		11/13/23 09:26	11/16/23 21:21	5

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-39

Lab Sample ID: 860-61059-5

Date Collected: 11/07/23 11:40

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<1.03	U	10.0	1.03	ug/L		11/13/23 09:26	11/16/23 21:21	5
Hexachlorobenzene	<0.628	U	10.0	0.628	ug/L		11/13/23 09:26	11/16/23 21:21	5
Hexachlorobutadiene	<1.26	U	10.0	1.26	ug/L		11/13/23 09:26	11/16/23 21:21	5
Hexachlorocyclopentadiene	<2.16	U	10.0	2.16	ug/L		11/13/23 09:26	11/16/23 21:21	5
Hexachloroethane	<0.700	U	10.0	0.700	ug/L		11/13/23 09:26	11/16/23 21:21	5
Hexachloropropene	<1.07	U	20.0	1.07	ug/L		11/13/23 09:26	11/16/23 21:21	5
Indeno[1,2,3-cd]pyrene	<4.26	U	10.0	4.26	ug/L		11/13/23 09:26	11/16/23 21:21	5
Isophorone	<0.840	U	10.0	0.840	ug/L		11/13/23 09:26	11/16/23 21:21	5
Isosafrole	<12.3	U	30.0	12.3	ug/L		11/13/23 09:26	11/16/23 21:21	5
Methapyrilene	<0.905	U	10.0	0.905	ug/L		11/13/23 09:26	11/16/23 21:21	5
Methyl methanesulfonate	<0.305	U	10.0	0.305	ug/L		11/13/23 09:26	11/16/23 21:21	5
Methyl parathion	<8.22	U	20.0	8.22	ug/L		11/13/23 09:26	11/16/23 21:21	5
Naphthalene	<2.11	U	10.0	2.11	ug/L		11/13/23 09:26	11/16/23 21:21	5
Nitrobenzene	<4.67	U	10.0	4.67	ug/L		11/13/23 09:26	11/16/23 21:21	5
N-Nitro-o-toluidine	<6.55	U	40.0	6.55	ug/L		11/13/23 09:26	11/16/23 21:21	5
N-Nitrosodiethylamine	<7.70	U	20.0	7.70	ug/L		11/13/23 09:26	11/16/23 21:21	5
N-Nitrosodimethylamine	<0.628	U	10.0	0.628	ug/L		11/13/23 09:26	11/16/23 21:21	5
N-Nitrosodi-n-butylamine	<7.70	U	10.0	7.70	ug/L		11/13/23 09:26	11/16/23 21:21	5
N-Nitrosodi-n-propylamine	<0.807	U	10.0	0.807	ug/L		11/13/23 09:26	11/16/23 21:21	5
N-Nitrosodiphenylamine	<0.773	U	10.0	0.773	ug/L		11/13/23 09:26	11/16/23 21:21	5
N-Nitrosomethylethylamine	<0.994	U	10.0	0.994	ug/L		11/13/23 09:26	11/16/23 21:21	5
N-Nitrosomorpholine	<7.21	U	20.0	7.21	ug/L		11/13/23 09:26	11/16/23 21:21	5
N-Nitrosopiperidine	<7.20	U	20.0	7.20	ug/L		11/13/23 09:26	11/16/23 21:21	5
N-Nitrosopyrrolidine	<6.90	U	20.0	6.90	ug/L		11/13/23 09:26	11/16/23 21:21	5
o,o',o"-Triethylphosphorothioate	<0.290	U	40.0	0.290	ug/L		11/13/23 09:26	11/16/23 21:21	5
p-Dimethylamino azobenzene	<0.290	U	40.0	0.290	ug/L		11/13/23 09:26	11/16/23 21:21	5
Pentachlorobenzene	<5.91	U	10.0	5.91	ug/L		11/13/23 09:26	11/16/23 21:21	5
Pentachloronitrobenzene	<6.33	U	10.0	6.33	ug/L		11/13/23 09:26	11/16/23 21:21	5
Pentachlorophenol	<2.20	U	10.0	2.20	ug/L		11/13/23 09:26	11/16/23 21:21	5
Phenacetin	<6.62	U	40.0	6.62	ug/L		11/13/23 09:26	11/16/23 21:21	5
Phenanthrene	<0.882	U	10.0	0.882	ug/L		11/13/23 09:26	11/16/23 21:21	5
Phenol	<1.01	U	20.0	1.01	ug/L		11/13/23 09:26	11/16/23 21:21	5
Phorate	<6.99	U	40.0	6.99	ug/L		11/13/23 09:26	11/16/23 21:21	5
p-Phenylene diamine	<50.0	U *	50.0	50.0	ug/L		11/13/23 09:26	11/16/23 21:21	5
Pronamide	<6.93	U	20.0	6.93	ug/L		11/13/23 09:26	11/16/23 21:21	5
Pyrene	<0.797	U	10.0	0.797	ug/L		11/13/23 09:26	11/16/23 21:21	5
Pyridine	<3.62	U	10.0	3.62	ug/L		11/13/23 09:26	11/16/23 21:21	5
Safrole, Total	<0.916	U	20.0	0.916	ug/L		11/13/23 09:26	11/16/23 21:21	5
Sulfotepp	<7.16	U	20.0	7.16	ug/L		11/13/23 09:26	11/16/23 21:21	5
Thionazin	<7.18	U	40.0	7.18	ug/L		11/13/23 09:26	11/16/23 21:21	5
Aramite Peak 2	<13.7	U	20.0	13.7	ug/L		11/13/23 09:26	11/16/23 21:21	5
Isosafrole Peak 1	<12.3	U	30.0	12.3	ug/L		11/13/23 09:26	11/16/23 21:21	5
Diallate Peak 2	<3.01	U	40.0	3.01	ug/L		11/13/23 09:26	11/16/23 21:21	5
Isosafrole Peak 2	<10.6	U	30.0	10.6	ug/L		11/13/23 09:26	11/16/23 21:21	5
Diallate Peak 1	<3.37	U	40.0	3.37	ug/L		11/13/23 09:26	11/16/23 21:21	5
Aramite Peak 1	<3.35	U	20.0	3.35	ug/L		11/13/23 09:26	11/16/23 21:21	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		31 - 132	11/13/23 09:26	11/16/23 21:21	5
2-Fluorobiphenyl	55		40 - 130	11/13/23 09:26	11/16/23 21:21	5

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-39

Date Collected: 11/07/23 11:40

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61059-5

Matrix: Water

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	30		21 - 114	11/13/23 09:26	11/16/23 21:21	5
Nitrobenzene-d5 (Surr)	44		37 - 130	11/13/23 09:26	11/16/23 21:21	5
Phenol-d5 (Surr)	19		16 - 117	11/13/23 09:26	11/16/23 21:21	5
p-Terphenyl-d14	99		20 - 141	11/13/23 09:26	11/16/23 21:21	5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.44		0.601	0.158	ug/L		11/10/23 06:40	11/16/23 14:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	136	S1+	37 - 133				11/10/23 06:40	11/16/23 14:11	1

Client Sample ID: TB-01(110723)

Date Collected: 11/07/23 00:00

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61059-6

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/09/23 21:43	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/09/23 21:43	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/09/23 21:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/09/23 21:43	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/09/23 21:43	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/09/23 21:43	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/09/23 21:43	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/09/23 21:43	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/09/23 21:43	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/09/23 21:43	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/09/23 21:43	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/09/23 21:43	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/09/23 21:43	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/09/23 21:43	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/09/23 21:43	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/09/23 21:43	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/09/23 21:43	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/09/23 21:43	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/09/23 21:43	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/09/23 21:43	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/09/23 21:43	1
Acetone	<3.07	U	100	3.07	ug/L			11/09/23 21:43	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/09/23 21:43	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/09/23 21:43	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/09/23 21:43	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/09/23 21:43	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/09/23 21:43	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/09/23 21:43	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/09/23 21:43	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/09/23 21:43	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/09/23 21:43	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/09/23 21:43	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: TB-01(110723)

Lab Sample ID: 860-61059-6

Date Collected: 11/07/23 00:00

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/09/23 21:43	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/09/23 21:43	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/09/23 21:43	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/09/23 21:43	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/09/23 21:43	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/09/23 21:43	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/09/23 21:43	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/09/23 21:43	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/09/23 21:43	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/09/23 21:43	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/09/23 21:43	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/09/23 21:43	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/09/23 21:43	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/09/23 21:43	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/09/23 21:43	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/09/23 21:43	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/09/23 21:43	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/09/23 21:43	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/09/23 21:43	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/09/23 21:43	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/09/23 21:43	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/09/23 21:43	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/09/23 21:43	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/09/23 21:43	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/09/23 21:43	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/09/23 21:43	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/09/23 21:43	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/09/23 21:43	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/09/23 21:43	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/09/23 21:43	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/09/23 21:43	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/09/23 21:43	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/09/23 21:43	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/09/23 21:43	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/09/23 21:43	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/09/23 21:43	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/09/23 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		11/09/23 21:43	1
4-Bromofluorobenzene (Surr)	98		74 - 124		11/09/23 21:43	1
Dibromofluoromethane (Surr)	105		75 - 131		11/09/23 21:43	1
Toluene-d8 (Surr)	98		80 - 120		11/09/23 21:43	1

Eurofins Houston

Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-61041-F-6 MS	Matrix Spike	100	96	98	100
860-61041-F-6 MSD	Matrix Spike Duplicate	98	95	99	97
860-61059-1	MW-85	107	97	104	97
860-61059-2	MW-86	104	98	103	99
860-61059-3	MW-87	101	112	100	90
860-61059-4	MW-79	96	118	93	93
860-61059-5	MW-39	94	88	94	95
860-61059-6	TB-01(110723)	105	98	105	98
LCS 860-130327/3	Lab Control Sample	97	101	98	101
LCSD 860-130327/4	Lab Control Sample Dup	99	100	101	100
MB 860-130327/10	Method Blank	106	95	101	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	2FP (19-120)	FBP (43-130)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-61041-C-6-B MS	Matrix Spike	150 S1+	81	98	125	53	87
860-61041-C-6-C MSD	Matrix Spike Duplicate	170 S1+	81	99	138 S1+	48	98
860-61059-1	MW-85				132		
860-61059-2	MW-86				124		
860-61059-3	MW-87				134 S1+		
860-61059-4	MW-79				124		
860-61059-5	MW-39				136 S1+		
LCS 860-130405/2-A	Lab Control Sample	106	61	122	144 S1+	48	93
LCSD 860-130405/3-A	Lab Control Sample Dup	110	59	109	127	45	83
MB 860-130405/1-A	Method Blank	99	48	124	137 S1+	35	102

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
2FP = 2-Fluorophenol (Surr)
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (31-132)	FBP (40-130)	2FP (21-114)	NBZ (37-130)	PHL (16-117)	TPHd14 (20-141)
860-61041-B-6-B MS	Matrix Spike	115	86	54	77	40	126
860-61041-B-6-C MSD	Matrix Spike Duplicate	96	73	40	59	29	99

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Surrogate Summary

Client: Ashland LLC

Job ID: 860-61059-1

Project/Site: Hercules Hattiesburg, MS

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TBP (31-132)	FBP (40-130)	2FP (21-114)	NBZ (37-130)	PHL (16-117)	TPHd14 (20-141)
860-61059-1	MW-85	64	59	39	57	26	85
860-61059-2	MW-86	105	94	66	91	42	115
860-61059-3	MW-87	91	77	43	65	30	108
860-61059-4	MW-79	70	67	38	59	23	87
860-61059-5	MW-39	70	55	30	44	19	99
LCS 860-130473/2-A	Lab Control Sample	65	64	49	66	37	106
LCS 860-130701/2-A	Lab Control Sample	77	77	62	81	47	96
LCSD 860-130473/3-A	Lab Control Sample Dup	78	71	53	71	40	108
LCSD 860-130701/3-A	Lab Control Sample Dup	83	82	65	87	49	95
MB 860-130473/1-A	Method Blank	37	49	34	48	25	93
MB 860-130701/1-A	Method Blank	53	72	49	71	33	99

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-130327/10

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/09/23 21:02	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/09/23 21:02	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/09/23 21:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/09/23 21:02	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/09/23 21:02	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/09/23 21:02	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/09/23 21:02	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/09/23 21:02	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/09/23 21:02	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/09/23 21:02	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/09/23 21:02	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/09/23 21:02	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/09/23 21:02	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/09/23 21:02	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/09/23 21:02	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/09/23 21:02	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/09/23 21:02	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/09/23 21:02	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/09/23 21:02	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/09/23 21:02	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/09/23 21:02	1
Acetone	<3.07	U	100	3.07	ug/L			11/09/23 21:02	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/09/23 21:02	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/09/23 21:02	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/09/23 21:02	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/09/23 21:02	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/09/23 21:02	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/09/23 21:02	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/09/23 21:02	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/09/23 21:02	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/09/23 21:02	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/09/23 21:02	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/09/23 21:02	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/09/23 21:02	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/09/23 21:02	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/09/23 21:02	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/09/23 21:02	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/09/23 21:02	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/09/23 21:02	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/09/23 21:02	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/09/23 21:02	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/09/23 21:02	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/09/23 21:02	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/09/23 21:02	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/09/23 21:02	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/09/23 21:02	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/09/23 21:02	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/09/23 21:02	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130327/10

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/09/23 21:02	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/09/23 21:02	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/09/23 21:02	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/09/23 21:02	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/09/23 21:02	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/09/23 21:02	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/09/23 21:02	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/09/23 21:02	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/09/23 21:02	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/09/23 21:02	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/09/23 21:02	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/09/23 21:02	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/09/23 21:02	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/09/23 21:02	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/09/23 21:02	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/09/23 21:02	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/09/23 21:02	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/09/23 21:02	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/09/23 21:02	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/09/23 21:02	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/09/23 21:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		11/09/23 21:02	1
4-Bromofluorobenzene (Surr)	95		74 - 124		11/09/23 21:02	1
Dibromofluoromethane (Surr)	101		75 - 131		11/09/23 21:02	1
Toluene-d8 (Surr)	99		80 - 120		11/09/23 21:02	1

Lab Sample ID: LCS 860-130327/3

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	51.05		ug/L		102	72 - 125
1,1,1-Trichloroethane	50.0	50.04		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.76		ug/L		108	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.93		ug/L		98	60 - 140
1,1,2-Trichloroethane	50.0	51.66		ug/L		103	70 - 130
1,1-Dichloroethane	50.0	48.46		ug/L		97	70 - 130
1,1-Dichloroethene	50.0	48.26		ug/L		97	50 - 150
1,2,3-Trichloropropane	50.0	52.35		ug/L		105	75 - 125
1,2,4-Trimethylbenzene	50.0	56.20		ug/L		112	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	51.95		ug/L		104	59 - 125
1,2-Dibromoethane	50.0	52.53		ug/L		105	73 - 125
1,2-Dichloroethane	50.0	51.05		ug/L		102	72 - 130
1,2-Dichloropropane	50.0	51.54		ug/L		103	74 - 125
1,3,5-Trimethylbenzene	50.0	54.86		ug/L		110	60 - 140
1,3-Butadiene	50.0	43.54		ug/L		87	60 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130327/3

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	50.04		ug/L		100	70 - 130
2-Butanone (MEK)	250	245.8		ug/L		98	60 - 140
2-Hexanone (MBK)	250	261.8		ug/L		105	60 - 140
2-Propanol	500	488.7		ug/L		98	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	44.12		ug/L		88	70 - 130
4-Methyl-2-pentanone	250	261.5		ug/L		105	60 - 140
Acetone	250	206.2		ug/L		82	60 - 140
Acetonitrile	500	471.3		ug/L		94	60 - 140
Acrolein	250	237.5		ug/L		95	60 - 140
Acrylonitrile	500	463.9		ug/L		93	60 - 140
alpha-Chlorotoluene	50.0	48.60		ug/L		97	75 - 125
Benzene	50.0	50.53		ug/L		101	75 - 125
Bromodichloromethane	50.0	50.47		ug/L		101	75 - 125
Bromoform	50.0	49.39		ug/L		99	70 - 130
Bromomethane	50.0	45.52		ug/L		91	60 - 140
Carbon disulfide	50.0	44.99		ug/L		90	60 - 140
Carbon tetrachloride	50.0	50.81		ug/L		102	70 - 130
Chlorobenzene	50.0	52.39		ug/L		105	65 - 135
Chlorodibromomethane	50.0	50.64		ug/L		101	73 - 125
Chloroethane	50.0	46.26		ug/L		93	60 - 140
Chloroform	50.0	50.84		ug/L		102	70 - 121
Chloromethane	50.0	41.49		ug/L		83	60 - 140
Chloroprene	50.0	47.47		ug/L		95	70 - 130
cis-1,2-Dichloroethene	50.0	49.98		ug/L		100	75 - 125
cis-1,3-Dichloropropene	50.0	51.42		ug/L		103	74 - 125
Cumene (isopropylbenzene)	50.0	54.39		ug/L		109	75 - 125
Cyclohexane	50.0	46.59		ug/L		93	70 - 130
Dibromomethane	50.0	52.36		ug/L		105	69 - 127
Dichlorodifluoromethane	50.0	38.70		ug/L		77	50 - 150
Ethyl methacrylate	50.0	52.22		ug/L		104	70 - 130
Ethylbenzene	50.0	53.06		ug/L		106	75 - 125
Hexane	50.0	46.07		ug/L		92	72 - 125
Iodomethane	50.0	48.56		ug/L		97	75 - 125
Isobutanol	1240	1343		ug/L		108	60 - 140
Methacrylonitrile	500	498.1		ug/L		100	70 - 130
Methyl methacrylate	100	104.1		ug/L		104	70 - 130
Methyl tert-butyl ether	50.0	49.03		ug/L		98	65 - 135
Methylene Chloride	50.0	44.50		ug/L		89	71 - 125
Propionitrile	500	502.2		ug/L		100	70 - 130
Propylbenzene	50.0	55.05		ug/L		110	75 - 125
Styrene	50.0	55.92		ug/L		112	75 - 125
Tetrachloroethene	50.0	50.58		ug/L		101	71 - 125
Tetrahydrofuran	100	93.79		ug/L		94	75 - 125
Toluene	50.0	51.13		ug/L		102	70 - 130
trans-1,2-Dichloroethene	50.0	49.63		ug/L		99	75 - 125
trans-1,3-Dichloropropene	50.0	51.51		ug/L		103	66 - 125
trans-1,4-Dichloro-2-butene	50.0	53.55		ug/L		107	70 - 130
Trichloroethene	50.0	50.43		ug/L		101	75 - 135
Trichlorofluoromethane	50.0	46.28		ug/L		93	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130327/3

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	243.6		ug/L		97	60 - 140
Vinyl chloride	50.0	44.45		ug/L		89	60 - 140
Xylenes, Total	100	107.3		ug/L		107	75 - 125
o-Xylene	50.0	53.41		ug/L		107	75 - 125
m,p-Xylenes	50.0	53.92		ug/L		108	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LCSD 860-130327/4

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	50.84		ug/L		102	72 - 125	0	25
1,1,1-Trichloroethane	50.0	50.43		ug/L		101	70 - 130	1	25
1,1,2,2-Tetrachloroethane	50.0	53.59		ug/L		107	74 - 125	0	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.08		ug/L		92	60 - 140	6	25
1,1,2-Trichloroethane	50.0	52.24		ug/L		104	70 - 130	1	25
1,1-Dichloroethane	50.0	46.44		ug/L		93	70 - 130	4	25
1,1-Dichloroethene	50.0	48.92		ug/L		98	50 - 150	1	25
1,2,3-Trichloropropane	50.0	53.71		ug/L		107	75 - 125	3	25
1,2,4-Trimethylbenzene	50.0	55.00		ug/L		110	75 - 125	2	25
1,2-Dibromo-3-Chloropropane	50.0	51.70		ug/L		103	59 - 125	0	25
1,2-Dibromoethane	50.0	53.07		ug/L		106	73 - 125	1	25
1,2-Dichloroethane	50.0	51.63		ug/L		103	72 - 130	1	25
1,2-Dichloropropane	50.0	51.82		ug/L		104	74 - 125	1	25
1,3,5-Trimethylbenzene	50.0	53.26		ug/L		107	60 - 140	3	25
1,3-Butadiene	50.0	43.02		ug/L		86	60 - 150	1	25
2,2,4-Trimethylpentane	50.0	48.01		ug/L		96	70 - 130	4	25
2-Butanone (MEK)	250	252.8		ug/L		101	60 - 140	3	25
2-Hexanone (MBK)	250	270.6		ug/L		108	60 - 140	3	25
2-Propanol	500	544.6		ug/L		109	70 - 120	11	25
3-Chloropropene (Allyl Chloride)	50.0	45.46		ug/L		91	70 - 130	3	25
4-Methyl-2-pentanone	250	271.0		ug/L		108	60 - 140	4	25
Acetone	250	214.9		ug/L		86	60 - 140	4	25
Acetonitrile	500	486.0		ug/L		97	60 - 140	3	25
Acrolein	250	238.2		ug/L		95	60 - 140	0	25
Acrylonitrile	500	476.6		ug/L		95	60 - 140	3	25
alpha-Chlorotoluene	50.0	48.75		ug/L		97	75 - 125	0	25
Benzene	50.0	50.64		ug/L		101	75 - 125	0	25
Bromodichloromethane	50.0	51.18		ug/L		102	75 - 125	1	25
Bromoform	50.0	50.67		ug/L		101	70 - 130	3	25
Bromomethane	50.0	45.72		ug/L		91	60 - 140	0	25
Carbon disulfide	50.0	44.29		ug/L		89	60 - 140	2	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130327/4

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	49.35		ug/L		99	70 - 130	3	25
Chlorobenzene	50.0	52.50		ug/L		105	65 - 135	0	25
Chlorodibromomethane	50.0	50.65		ug/L		101	73 - 125	0	25
Chloroethane	50.0	44.31		ug/L		89	60 - 140	4	25
Chloroform	50.0	51.03		ug/L		102	70 - 121	0	25
Chloromethane	50.0	41.24		ug/L		82	60 - 140	1	25
Chloroprene	50.0	47.32		ug/L		95	70 - 130	0	25
cis-1,2-Dichloroethene	50.0	50.90		ug/L		102	75 - 125	2	25
cis-1,3-Dichloropropene	50.0	52.58		ug/L		105	74 - 125	2	25
Cumene (isopropylbenzene)	50.0	53.74		ug/L		107	75 - 125	1	25
Cyclohexane	50.0	44.67		ug/L		89	70 - 130	4	25
Dibromomethane	50.0	52.83		ug/L		106	69 - 127	1	25
Dichlorodifluoromethane	50.0	35.51		ug/L		71	50 - 150	9	25
Ethyl methacrylate	50.0	52.95		ug/L		106	70 - 130	1	25
Ethylbenzene	50.0	52.70		ug/L		105	75 - 125	1	25
Hexane	50.0	43.05		ug/L		86	72 - 125	7	25
Iodomethane	50.0	48.67		ug/L		97	75 - 125	0	25
Isobutanol	1240	1443		ug/L		116	60 - 140	7	25
Methacrylonitrile	500	508.4		ug/L		102	70 - 130	2	25
Methyl methacrylate	100	106.7		ug/L		107	70 - 130	2	25
Methyl tert-butyl ether	50.0	48.82		ug/L		98	65 - 135	0	25
Methylene Chloride	50.0	44.40		ug/L		89	71 - 125	0	25
Propionitrile	500	514.2		ug/L		103	70 - 130	2	25
Propylbenzene	50.0	53.56		ug/L		107	75 - 125	3	25
Styrene	50.0	55.88		ug/L		112	75 - 125	0	25
Tetrachloroethene	50.0	50.08		ug/L		100	71 - 125	1	25
Tetrahydrofuran	100	102.5		ug/L		103	75 - 125	9	25
Toluene	50.0	51.02		ug/L		102	70 - 130	0	25
trans-1,2-Dichloroethene	50.0	48.09		ug/L		96	75 - 125	3	25
trans-1,3-Dichloropropene	50.0	51.76		ug/L		104	66 - 125	0	25
trans-1,4-Dichloro-2-butene	50.0	53.07		ug/L		106	70 - 130	1	25
Trichloroethene	50.0	50.29		ug/L		101	75 - 135	0	25
Trichlorofluoromethane	50.0	44.28		ug/L		89	60 - 140	4	25
Vinyl acetate	250	243.5		ug/L		97	60 - 140	0	25
Vinyl chloride	50.0	43.60		ug/L		87	60 - 140	2	25
Xylenes, Total	100	107.0		ug/L		107	75 - 125	0	25
o-Xylene	50.0	53.31		ug/L		107	75 - 125	0	25
m,p-Xylenes	50.0	53.67		ug/L		107	75 - 125	0	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	100		80 - 120

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61041-F-6 MS

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	45.32		ug/L		91	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	44.90		ug/L		90	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	47.97		ug/L		96	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	41.48		ug/L		83	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	47.33		ug/L		95	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	42.08		ug/L		84	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	43.75		ug/L		88	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	47.36		ug/L		95	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	47.33		ug/L		95	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	48.87		ug/L		98	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	47.74		ug/L		95	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	46.61		ug/L		93	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	46.27		ug/L		93	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	46.50		ug/L		93	70 - 125
1,3-Butadiene	<0.568	U	50.0	42.85		ug/L		86	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	43.79		ug/L		88	70 - 130
2-Butanone (MEK)	<8.28	U	250	241.8		ug/L		97	60 - 140
2-Hexanone (MBK)	<7.45	U	250	255.1		ug/L		102	60 - 140
2-Propanol	<5.23	U	500	508.7		ug/L		102	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	44.06		ug/L		88	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	256.9		ug/L		103	60 - 140
Acetone	<3.07	U	250	195.0		ug/L		78	60 - 140
Acetonitrile	<14.6	U	500	463.2		ug/L		93	60 - 140
Acrolein	<11.1	U	250	218.0		ug/L		87	50 - 150
Acrylonitrile	<14.3	U	500	443.5		ug/L		89	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	41.06		ug/L		82	70 - 130
Benzene	<0.460	U	50.0	45.76		ug/L		92	66 - 142
Bromodichloromethane	<0.552	U	50.0	46.33		ug/L		93	75 - 125
Bromoform	<0.633	U	50.0	45.51		ug/L		91	75 - 125
Bromomethane	<1.42	U	50.0	44.07		ug/L		88	60 - 140
Carbon disulfide	<1.65	U	50.0	40.50		ug/L		81	60 - 140
Carbon tetrachloride	<0.896	U	50.0	42.95		ug/L		86	62 - 125
Chlorobenzene	17.9		50.0	63.75		ug/L		92	60 - 133
Chlorodibromomethane	<0.547	U	50.0	45.73		ug/L		91	73 - 125
Chloroethane	<1.98	U	50.0	44.09		ug/L		88	60 - 140
Chloroform	<0.464	U	50.0	45.30		ug/L		91	70 - 130
Chloromethane	<2.04	U	50.0	41.10		ug/L		82	60 - 140
Chloroprene	<0.598	U	50.0	42.52		ug/L		85	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	45.29		ug/L		91	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	47.15		ug/L		94	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	48.80		ug/L		98	75 - 125
Cyclohexane	<1.29	U	50.0	38.98		ug/L		78	70 - 130
Dibromomethane	<0.357	U	50.0	48.28		ug/L		97	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	37.60		ug/L		75	70 - 130
Ethyl methacrylate	<1.12	U	50.0	49.08		ug/L		98	70 - 130
Ethylbenzene	<0.385	U	50.0	46.93		ug/L		94	75 - 125
Hexane	<0.517	U	50.0	38.68		ug/L		77	72 - 125
Iodomethane	<6.52	U	50.0	44.50		ug/L		89	75 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61041-F-6 MS

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Isobutanol	<17.1	U	1240	1377		ug/L		111	60 - 140
Methacrylonitrile	<2.72	U	500	468.9		ug/L		94	70 - 130
Methyl methacrylate	<2.25	U	100	99.15		ug/L		99	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	45.87		ug/L		92	65 - 135
Methylene Chloride	<1.73	U	50.0	38.25		ug/L		77	75 - 125
Propionitrile	<3.34	U	500	487.4		ug/L		97	70 - 130
Propylbenzene	<0.429	U	50.0	46.92		ug/L		94	75 - 125
Styrene	<0.619	U	50.0	49.69		ug/L		99	75 - 125
Tetrachloroethene	<0.655	U	50.0	44.43		ug/L		89	71 - 125
Tetrahydrofuran	<1.83	U	100	95.28		ug/L		95	75 - 125
Toluene	<0.475	U	50.0	46.21		ug/L		92	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	44.38		ug/L		89	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	46.61		ug/L		93	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	45.30		ug/L		91	70 - 130
Trichloroethene	<0.791	U	50.0	44.64		ug/L		89	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	42.73		ug/L		85	60 - 140
Vinyl acetate	<2.14	U	250	225.2		ug/L		90	60 - 140
Vinyl chloride	<0.428	U	50.0	43.69		ug/L		87	60 - 140
Xylenes, Total	<1.24	U	100	95.38		ug/L		95	75 - 125
o-Xylene	<0.502	U	50.0	47.77		ug/L		96	75 - 125
m,p-Xylenes	<1.24	U	50.0	47.61		ug/L		95	75 - 125
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	100		63 - 144						
4-Bromofluorobenzene (Surr)	96		74 - 124						
Dibromofluoromethane (Surr)	98		75 - 131						
Toluene-d8 (Surr)	100		80 - 120						

Lab Sample ID: 860-61041-F-6 MSD

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	44.20		ug/L		88	72 - 125	2	25
1,1,1-Trichloroethane	<0.585	U	50.0	46.03		ug/L		92	75 - 125	2	25
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	44.65		ug/L		89	74 - 125	7	25
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	41.78		ug/L		84	60 - 140	1	25
1,1,2-Trichloroethane	<0.411	U	50.0	45.48		ug/L		91	75 - 127	4	25
1,1-Dichloroethane	<0.635	U	50.0	44.38		ug/L		89	72 - 125	5	25
1,1-Dichloroethene	<0.738	U	50.0	44.10		ug/L		88	59 - 172	1	25
1,2,3-Trichloropropane	<0.470	U	50.0	44.82		ug/L		90	75 - 125	6	25
1,2,4-Trimethylbenzene	<0.417	U	50.0	45.48		ug/L		91	75 - 125	4	25
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	43.87		ug/L		88	59 - 125	11	25
1,2-Dibromoethane	<0.999	U	50.0	46.43		ug/L		93	73 - 125	3	25
1,2-Dichloroethane	<0.372	U	50.0	46.36		ug/L		93	68 - 127	1	25
1,2-Dichloropropane	<0.556	U	50.0	46.43		ug/L		93	74 - 125	0	25
1,3,5-Trimethylbenzene	<0.411	U	50.0	43.58		ug/L		87	70 - 125	6	25
1,3-Butadiene	<0.568	U	50.0	41.42		ug/L		83	70 - 150	3	25

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61041-F-6 MSD

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,2,4-Trimethylpentane	<0.500	U	50.0	44.59		ug/L		89	70 - 130	2	25
2-Butanone (MEK)	<8.28	U	250	232.4		ug/L		93	60 - 140	4	25
2-Hexanone (MBK)	<7.45	U	250	238.6		ug/L		95	60 - 140	7	25
2-Propanol	<5.23	U	500	419.2		ug/L		84	70 - 120	19	25
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	41.95		ug/L		84	70 - 130	5	25
4-Methyl-2-pentanone	<7.49	U	250	248.1		ug/L		99	60 - 140	3	25
Acetone	<3.07	U	250	192.8		ug/L		77	60 - 140	1	25
Acetonitrile	<14.6	U	500	434.9		ug/L		87	60 - 140	6	25
Acrolein	<11.1	U	250	212.7		ug/L		85	50 - 150	2	25
Acrylonitrile	<14.3	U	500	441.5		ug/L		88	50 - 150	0	25
alpha-Chlorotoluene	<2.26	U	50.0	38.14		ug/L		76	70 - 130	7	25
Benzene	<0.460	U	50.0	45.98		ug/L		92	66 - 142	0	25
Bromodichloromethane	<0.552	U	50.0	45.94		ug/L		92	75 - 125	1	25
Bromoform	<0.633	U	50.0	43.08		ug/L		86	75 - 125	5	25
Bromomethane	<1.42	U	50.0	42.29		ug/L		85	60 - 140	4	25
Carbon disulfide	<1.65	U	50.0	41.19		ug/L		82	60 - 140	2	25
Carbon tetrachloride	<0.896	U	50.0	44.67		ug/L		89	62 - 125	4	25
Chlorobenzene	17.9		50.0	62.53		ug/L		89	60 - 133	2	25
Chlorodibromomethane	<0.547	U	50.0	43.81		ug/L		88	73 - 125	4	25
Chloroethane	<1.98	U	50.0	42.11		ug/L		84	60 - 140	5	25
Chloroform	<0.464	U	50.0	45.90		ug/L		92	70 - 130	1	25
Chloromethane	<2.04	U	50.0	40.35		ug/L		81	60 - 140	2	25
Chloroprene	<0.598	U	50.0	42.53		ug/L		85	70 - 130	0	25
cis-1,2-Dichloroethene	<0.457	U	50.0	46.24		ug/L		92	75 - 125	2	25
cis-1,3-Dichloropropene	<1.07	U	50.0	46.68		ug/L		93	74 - 125	1	25
Cumene (isopropylbenzene)	<0.592	U	50.0	47.02		ug/L		94	75 - 125	4	25
Cyclohexane	<1.29	U	50.0	41.15		ug/L		82	70 - 130	5	25
Dibromomethane	<0.357	U	50.0	47.67		ug/L		95	69 - 127	1	25
Dichlorodifluoromethane	<0.785	U	50.0	37.46		ug/L		75	70 - 130	0	25
Ethyl methacrylate	<1.12	U	50.0	47.44		ug/L		95	70 - 130	3	25
Ethylbenzene	<0.385	U	50.0	45.61		ug/L		91	75 - 125	3	25
Hexane	<0.517	U	50.0	40.37		ug/L		81	72 - 125	4	25
Iodomethane	<6.52	U	50.0	45.13		ug/L		90	75 - 125	1	25
Isobutanol	<17.1	U	1250	1174		ug/L		94	60 - 140	16	25
Methacrylonitrile	<2.72	U	500	467.0		ug/L		93	70 - 130	0	25
Methyl methacrylate	<2.25	U	100	97.16		ug/L		97	70 - 130	2	25
Methyl tert-butyl ether	<1.39	U	50.0	46.39		ug/L		93	65 - 135	1	25
Methylene Chloride	<1.73	U	50.0	38.48		ug/L		77	75 - 125	1	25
Propionitrile	<3.34	U	500	468.1		ug/L		94	70 - 130	4	25
Propylbenzene	<0.429	U	50.0	44.29		ug/L		89	75 - 125	6	25
Styrene	<0.619	U	50.0	48.19		ug/L		96	75 - 125	3	25
Tetrachloroethene	<0.655	U	50.0	43.69		ug/L		87	71 - 125	2	25
Tetrahydrofuran	<1.83	U	100	92.01		ug/L		92	75 - 125	3	25
Toluene	<0.475	U	50.0	44.79		ug/L		90	59 - 139	3	25
trans-1,2-Dichloroethene	<0.368	U	50.0	44.55		ug/L		89	75 - 125	0	25
trans-1,3-Dichloropropene	<1.27	U	50.0	45.37		ug/L		91	66 - 125	3	25
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	42.29		ug/L		85	70 - 130	7	25
Trichloroethene	<0.791	U	50.0	44.78		ug/L		90	62 - 137	0	25
Trichlorofluoromethane	<0.560	U	50.0	42.31		ug/L		85	60 - 140	1	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61041-F-6 MSD

Matrix: Water

Analysis Batch: 130327

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl acetate	<2.14	U	250	226.5		ug/L		91	60 - 140	1	25
Vinyl chloride	<0.428	U	50.0	41.99		ug/L		84	60 - 140	4	25
Xylenes, Total	<1.24	U	100	92.83		ug/L		93	75 - 125	3	25
o-Xylene	<0.502	U	50.0	46.03		ug/L		92	75 - 125	4	25
m,p-Xylenes	<1.24	U	50.0	46.80		ug/L		94	75 - 125	2	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
4-Bromofluorobenzene (Surr)	95		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	97		80 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-130405/1-A

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.150	U	0.571	0.150	ug/L		11/10/23 06:40	11/15/23 18:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	137	S1+	37 - 133	11/10/23 06:40	11/15/23 18:59	1

Lab Sample ID: LCS 860-130405/2-A

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.86	0.9155		ug/L		32	27 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	106		35 - 130
2-Fluorophenol (Surr)	61		19 - 120
2-Fluorobiphenyl	122		43 - 130
Nitrobenzene-d5 (Surr)	144	S1+	37 - 133
Phenol-d5 (Surr)	48		8 - 124
p-Terphenyl-d14 (Surr)	93		47 - 130

Lab Sample ID: LCSD 860-130405/3-A

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130405

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.86	0.9367		ug/L		33	27 - 130	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	110		35 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-130405/3-A

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130405

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorophenol (Surr)	59		19 - 120
2-Fluorobiphenyl	109		43 - 130
Nitrobenzene-d5 (Surr)	127		37 - 133
Phenol-d5 (Surr)	45		8 - 124
p-Terphenyl-d14 (Surr)	83		47 - 130

Lab Sample ID: 860-61041-C-6-B MS

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 130405

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	12.7	F1	3.18	12.05	F1	ug/L		-19	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	150	S1+	35 - 130
2-Fluorophenol (Surr)	81		19 - 120
2-Fluorobiphenyl	98		43 - 130
Nitrobenzene-d5 (Surr)	125		37 - 133
Phenol-d5 (Surr)	53		8 - 124
p-Terphenyl-d14 (Surr)	87		47 - 130

Lab Sample ID: 860-61041-C-6-C MSD

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 130405

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1,4-Dioxane	12.7	F1	3.17	11.32	F1	ug/L		-43	70 - 130	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	170	S1+	35 - 130
2-Fluorophenol (Surr)	81		19 - 120
2-Fluorobiphenyl	99		43 - 130
Nitrobenzene-d5 (Surr)	138	S1+	37 - 133
Phenol-d5 (Surr)	48		8 - 124
p-Terphenyl-d14 (Surr)	98		47 - 130

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 860-130473/1-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130473

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/10/23 10:32	11/14/23 18:59	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/10/23 10:32	11/14/23 18:59	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/10/23 10:32	11/14/23 18:59	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/10/23 10:32	11/14/23 18:59	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/10/23 10:32	11/14/23 18:59	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130473/1-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130473

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/10/23 10:32	11/14/23 18:59	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/10/23 10:32	11/14/23 18:59	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/10/23 10:32	11/14/23 18:59	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/10/23 10:32	11/14/23 18:59	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/14/23 18:59	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/10/23 10:32	11/14/23 18:59	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/10/23 10:32	11/14/23 18:59	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/10/23 10:32	11/14/23 18:59	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/10/23 10:32	11/14/23 18:59	1
3,3'-Dimethylbenzidine	<0.444	U	8.00	0.444	ug/L		11/10/23 10:32	11/14/23 18:59	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/10/23 10:32	11/14/23 18:59	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/10/23 10:32	11/14/23 18:59	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/10/23 10:32	11/14/23 18:59	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/10/23 10:32	11/14/23 18:59	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/10/23 10:32	11/14/23 18:59	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/10/23 10:32	11/14/23 18:59	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/10/23 10:32	11/14/23 18:59	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/10/23 10:32	11/14/23 18:59	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/10/23 10:32	11/14/23 18:59	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/10/23 10:32	11/14/23 18:59	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/10/23 10:32	11/14/23 18:59	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/10/23 10:32	11/14/23 18:59	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/10/23 10:32	11/14/23 18:59	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/10/23 10:32	11/14/23 18:59	1
alpha, alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/10/23 10:32	11/14/23 18:59	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/10/23 10:32	11/14/23 18:59	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/10/23 10:32	11/14/23 18:59	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/10/23 10:32	11/14/23 18:59	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/10/23 10:32	11/14/23 18:59	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/14/23 18:59	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/10/23 10:32	11/14/23 18:59	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130473/1-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130473

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/10/23 10:32	11/14/23 18:59	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/10/23 10:32	11/14/23 18:59	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/10/23 10:32	11/14/23 18:59	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/10/23 10:32	11/14/23 18:59	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/10/23 10:32	11/14/23 18:59	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/10/23 10:32	11/14/23 18:59	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/10/23 10:32	11/14/23 18:59	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/14/23 18:59	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/10/23 10:32	11/14/23 18:59	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/14/23 18:59	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/10/23 10:32	11/14/23 18:59	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/10/23 10:32	11/14/23 18:59	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/10/23 10:32	11/14/23 18:59	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/10/23 10:32	11/14/23 18:59	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/10/23 10:32	11/14/23 18:59	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/10/23 10:32	11/14/23 18:59	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/10/23 10:32	11/14/23 18:59	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/10/23 10:32	11/14/23 18:59	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/10/23 10:32	11/14/23 18:59	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/10/23 10:32	11/14/23 18:59	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/10/23 10:32	11/14/23 18:59	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/10/23 10:32	11/14/23 18:59	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/10/23 10:32	11/14/23 18:59	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/10/23 10:32	11/14/23 18:59	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/14/23 18:59	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/10/23 10:32	11/14/23 18:59	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/10/23 10:32	11/14/23 18:59	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/10/23 10:32	11/14/23 18:59	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/10/23 10:32	11/14/23 18:59	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/10/23 10:32	11/14/23 18:59	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/10/23 10:32	11/14/23 18:59	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/10/23 10:32	11/14/23 18:59	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/10/23 10:32	11/14/23 18:59	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/10/23 10:32	11/14/23 18:59	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/10/23 10:32	11/14/23 18:59	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/10/23 10:32	11/14/23 18:59	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/10/23 10:32	11/14/23 18:59	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/10/23 10:32	11/14/23 18:59	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/10/23 10:32	11/14/23 18:59	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/10/23 10:32	11/14/23 18:59	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130473/1-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130473

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/10/23 10:32	11/14/23 18:59	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/10/23 10:32	11/14/23 18:59	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/10/23 10:32	11/14/23 18:59	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/10/23 10:32	11/14/23 18:59	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/10/23 10:32	11/14/23 18:59	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/10/23 10:32	11/14/23 18:59	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/10/23 10:32	11/14/23 18:59	1
p-Phenylene diamine	<10.0	U	10.0	10.0	ug/L		11/10/23 10:32	11/14/23 18:59	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/10/23 10:32	11/14/23 18:59	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/10/23 10:32	11/14/23 18:59	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/10/23 10:32	11/14/23 18:59	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/10/23 10:32	11/14/23 18:59	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/10/23 10:32	11/14/23 18:59	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/10/23 10:32	11/14/23 18:59	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/10/23 10:32	11/14/23 18:59	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/10/23 10:32	11/14/23 18:59	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/10/23 10:32	11/14/23 18:59	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/10/23 10:32	11/14/23 18:59	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/10/23 10:32	11/14/23 18:59	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/10/23 10:32	11/14/23 18:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	37		31 - 132	11/10/23 10:32	11/14/23 18:59	1
2-Fluorobiphenyl	49		40 - 130	11/10/23 10:32	11/14/23 18:59	1
2-Fluorophenol (Surr)	34		21 - 114	11/10/23 10:32	11/14/23 18:59	1
Nitrobenzene-d5 (Surr)	48		37 - 130	11/10/23 10:32	11/14/23 18:59	1
Phenol-d5 (Surr)	25		16 - 117	11/10/23 10:32	11/14/23 18:59	1
p-Terphenyl-d14	93		20 - 141	11/10/23 10:32	11/14/23 18:59	1

Lab Sample ID: LCS 860-130473/2-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	20.0	10.26		ug/L		51	41 - 117
1,2,4,5-Tetrachlorobenzene	20.0	10.04		ug/L		50	39 - 120
1,2,4-Trichlorobenzene	20.0	10.29		ug/L		51	34 - 117
1,2-Dichlorobenzene	20.0	11.10		ug/L		56	38 - 111
1,3,5-Trinitrobenzene	20.0	16.70		ug/L		83	35 - 128
1,3-Dichlorobenzene	20.0	10.65		ug/L		53	37 - 111
1,3-Dinitrobenzene	20.0	11.47		ug/L		57	36 - 131
1,4-Dichlorobenzene	20.0	10.71		ug/L		54	37 - 111
1,4-Naphthoquinone	20.0	11.94		ug/L		60	10 - 150
1-Naphthylamine	20.0	9.071		ug/L		45	40 - 120
2,2'-oxybis[1-chloropropane]	20.0	10.37		ug/L		52	10 - 150
2,3,4,6-Tetrachlorophenol	20.0	12.06		ug/L		60	33 - 132
2,4,5-Trichlorophenol	20.0	11.55		ug/L		58	39 - 125
2,4,6-Trichlorophenol	20.0	10.86		ug/L		54	42 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130473/2-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dichlorophenol	20.0	10.81		ug/L		54	38 - 120
2,4-Dimethylphenol	20.0	13.09		ug/L		65	39 - 117
2,4-Dinitrophenol	20.0	11.41		ug/L		57	13 - 152
2,4-Dinitrotoluene	20.0	13.02		ug/L		65	41 - 128
2,6-Dichlorophenol	20.0	10.40		ug/L		52	42 - 118
2,6-Dinitrotoluene	20.0	11.64		ug/L		58	42 - 127
2-Acetylaminofluorene	20.0	13.56		ug/L		68	40 - 130
2-Chloronaphthalene	20.0	10.06		ug/L		50	40 - 118
2-Chlorophenol	20.0	11.07		ug/L		55	41 - 108
2-Methylnaphthalene	20.0	10.67		ug/L		53	37 - 112
2-Methylphenol	20.0	9.997		ug/L		50	36 - 125
2-Naphthylamine	20.0	9.254		ug/L		46	40 - 120
2-Nitroaniline	20.0	11.95		ug/L		60	34 - 126
2-Nitrophenol	20.0	11.05		ug/L		55	38 - 125
2-Picoline	20.0	2.526		ug/L		13	11 - 107
2-Toluidine	20.0	8.959		ug/L		45	38 - 124
3 & 4 Methylphenol	20.0	9.564		ug/L		48	35 - 116
3,3'-Dichlorobenzidine	20.0	15.89		ug/L		79	29 - 141
3,3'-Dimethylbenzidine	20.0	2.329	J *	ug/L		12	40 - 130
3-Methylcholanthrene	20.0	15.90		ug/L		79	20 - 130
3-Nitroaniline	20.0	11.84		ug/L		59	42 - 123
4,6-Dinitro-2-methylphenol	20.0	13.94		ug/L		70	12 - 157
4-Aminobiphenyl	20.0	10.51		ug/L		53	20 - 130
4-Bromophenyl phenyl ether	20.0	10.97		ug/L		55	40 - 126
4-Chloro-3-methylphenol	20.0	10.52		ug/L		53	40 - 119
4-Chloroaniline	20.0	9.807		ug/L		49	39 - 111
4-Chlorophenyl phenyl ether	20.0	10.62		ug/L		53	40 - 122
4-Nitroaniline	20.0	15.06		ug/L		75	42 - 125
4-Nitroquinoline-1-oxide	20.0	14.87		ug/L		74	20 - 130
7,12-Dimethylbenz(a)anthracene	20.0	13.87		ug/L		69	40 - 120
Acenaphthene	20.0	10.61		ug/L		53	41 - 116
Acenaphthylene	20.0	11.05		ug/L		55	41 - 118
Acetophenone	20.0	10.73		ug/L		54	23 - 175
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0	
Aniline	20.0	6.774		ug/L		34	31 - 100
Anthracene	20.0	12.59		ug/L		63	39 - 127
Benzo[a]anthracene	20.0	16.24		ug/L		81	40 - 129
Benzo[a]pyrene	20.0	16.73		ug/L		84	36 - 141
Benzo[b]fluoranthene	20.0	16.13		ug/L		81	34 - 139
Benzo[g,h,i]perylene	20.0	17.62		ug/L		88	32 - 141
Benzo[k]fluoranthene	20.0	16.46		ug/L		82	31 - 139
Benzyl alcohol	20.0	11.33		ug/L		57	37 - 102
Bis(2-chloroethoxy)methane	20.0	10.77		ug/L		54	36 - 113
Bis(2-chloroethyl)ether	20.0	11.27		ug/L		56	38 - 111
Bis(2-ethylhexyl) phthalate	20.0	15.98		ug/L		80	44 - 136
Butyl benzyl phthalate	20.0	16.55		ug/L		83	44 - 133
Chrysene	20.0	16.12		ug/L		81	41 - 124
Dibenz(a,h)anthracene	20.0	17.66		ug/L		88	35 - 143

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130473/2-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dibenzofuran	20.0	10.72		ug/L		54	41 - 119
Diethyl phthalate	20.0	12.02		ug/L		60	41 - 125
Dimethyl phthalate	20.0	11.41		ug/L		57	42 - 123
Di-n-butyl phthalate	20.0	16.11		ug/L		81	41 - 133
Di-n-octyl phthalate	20.0	16.66		ug/L		83	34 - 145
Diphenyl ether	20.0	10.10		ug/L		51	40 - 130
Ethyl methanesulfonate	20.0	11.04		ug/L		55	40 - 127
Fluoranthene	20.0	15.37		ug/L		77	38 - 132
Fluorene	20.0	10.78		ug/L		54	41 - 121
Hexachlorobenzene	20.0	11.22		ug/L		56	39 - 128
Hexachlorobutadiene	20.0	10.28		ug/L		51	31 - 120
Hexachlorocyclopentadiene	20.0	12.28		ug/L		61	15 - 117
Hexachloroethane	20.0	10.43		ug/L		52	37 - 109
Hexachloropropene	20.0	9.688		ug/L		48	24 - 122
Indeno[1,2,3-cd]pyrene	20.0	17.67		ug/L		88	35 - 141
Isophorone	20.0	10.99		ug/L		55	40 - 115
Methyl methanesulfonate	20.0	9.910		ug/L		50	33 - 120
Naphthalene	20.0	10.40		ug/L		52	37 - 113
Nitrobenzene	20.0	10.90		ug/L		55	37 - 114
N-Nitro-o-toluidine	20.0	12.77		ug/L		64	40 - 120
N-Nitrosodiethylamine	20.0	11.57		ug/L		58	42 - 115
N-Nitrosodimethylamine	20.0	9.193		ug/L		46	28 - 126
N-Nitrosodi-n-butylamine	20.0	8.820		ug/L		44	34 - 122
N-Nitrosodi-n-propylamine	20.0	11.16		ug/L		56	38 - 117
N-Nitrosodiphenylamine	20.0	11.92		ug/L		60	40 - 127
N-Nitrosomethylethylamine	20.0	11.32		ug/L		57	41 - 108
N-Nitrosomorpholine	20.0	10.31		ug/L		52	32 - 115
N-Nitrosopiperidine	20.0	10.96		ug/L		55	39 - 115
N-Nitrosopyrrolidine	20.0	11.15		ug/L		56	36 - 121
p-Dimethylamino azobenzene	20.0	13.46		ug/L		67	38 - 124
Pentachlorobenzene	20.0	10.10		ug/L		51	40 - 123
Pentachloronitrobenzene	20.0	12.66		ug/L		63	40 - 120
Pentachlorophenol	20.0	12.99		ug/L		65	10 - 137
Phenacetin	20.0	13.99		ug/L		70	20 - 130
Phenanthrene	20.0	12.07		ug/L		60	39 - 126
Phenol	20.0	6.645		ug/L		33	15 - 106
p-Phenylene diamine	20.0	<10.0	U *-	ug/L		0	1 - 150
Pronamide	20.0	16.32		ug/L		82	25 - 120
Pyrene	20.0	14.30		ug/L		72	40 - 130
Pyridine	20.0	2.523	*-	ug/L		13	16 - 135
Safrole, Total	20.0	10.26		ug/L		51	40 - 120
Aramite Peak 2	10.0	7.137		ug/L		71	35 - 130
Isosafrole Peak 1	3.20	<2.46	U	ug/L		46	40 - 120
Diallate Peak 2	5.20	2.937	J	ug/L		56	38 - 130
Isosafrole Peak 2	16.8	8.629		ug/L		51	40 - 120
Diallate Peak 1	14.8	9.011		ug/L		61	38 - 130
Aramite Peak 1	10.0	6.918		ug/L		69	35 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130473/2-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130473

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	65		31 - 132
2-Fluorobiphenyl	64		40 - 130
2-Fluorophenol (Surr)	49		21 - 114
Nitrobenzene-d5 (Surr)	66		37 - 130
Phenol-d5 (Surr)	37		16 - 117
p-Terphenyl-d14	106		20 - 141

Lab Sample ID: LCSD 860-130473/3-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	20.0	11.90		ug/L		59	41 - 117	15	30
1,2,4,5-Tetrachlorobenzene	20.0	11.54		ug/L		58	39 - 120	14	30
1,2,4-Trichlorobenzene	20.0	11.76		ug/L		59	34 - 117	13	30
1,2-Dichlorobenzene	20.0	12.14		ug/L		61	38 - 111	9	30
1,3,5-Trinitrobenzene	20.0	17.53		ug/L		88	35 - 128	5	30
1,3-Dichlorobenzene	20.0	11.92		ug/L		60	37 - 111	11	30
1,3-Dinitrobenzene	20.0	13.94		ug/L		70	36 - 131	19	30
1,4-Dichlorobenzene	20.0	11.95		ug/L		60	37 - 111	11	30
1,4-Naphthoquinone	20.0	14.28		ug/L		71	10 - 150	18	30
1-Naphthylamine	20.0	10.93		ug/L		55	40 - 120	19	30
2,2'-oxybis[1-chloropropane]	20.0	11.62		ug/L		58	10 - 150	11	30
2,3,4,6-Tetrachlorophenol	20.0	15.13		ug/L		76	33 - 132	23	30
2,4,5-Trichlorophenol	20.0	14.19		ug/L		71	39 - 125	21	30
2,4,6-Trichlorophenol	20.0	13.49		ug/L		67	42 - 125	22	30
2,4-Dichlorophenol	20.0	12.61		ug/L		63	38 - 120	15	30
2,4-Dimethylphenol	20.0	14.67		ug/L		73	39 - 117	11	30
2,4-Dinitrophenol	20.0	13.71		ug/L		69	13 - 152	18	30
2,4-Dinitrotoluene	20.0	15.74		ug/L		79	41 - 128	19	30
2,6-Dichlorophenol	20.0	12.21		ug/L		61	42 - 118	16	30
2,6-Dinitrotoluene	20.0	14.26		ug/L		71	42 - 127	20	30
2-Acetylaminofluorene	20.0	14.88		ug/L		74	40 - 130	9	30
2-Chloronaphthalene	20.0	11.51		ug/L		58	40 - 118	13	30
2-Chlorophenol	20.0	12.43		ug/L		62	41 - 108	12	30
2-Methylnaphthalene	20.0	12.03		ug/L		60	37 - 112	12	30
2-Methylphenol	20.0	11.72		ug/L		59	36 - 125	16	30
2-Naphthylamine	20.0	10.59		ug/L		53	40 - 120	13	30
2-Nitroaniline	20.0	14.46		ug/L		72	34 - 126	19	30
2-Nitrophenol	20.0	12.69		ug/L		63	38 - 125	14	30
2-Picoline	20.0	2.326		ug/L		12	11 - 107	8	30
2-Toluidine	20.0	9.277		ug/L		46	38 - 124	3	30
3 & 4 Methylphenol	20.0	11.04		ug/L		55	35 - 116	14	30
3,3'-Dichlorobenzidine	20.0	16.27		ug/L		81	29 - 141	2	30
3,3'-Dimethylbenzidine	20.0	1.795	J *	ug/L		9	40 - 130	26	30
3-Methylcholanthrene	20.0	16.69		ug/L		83	20 - 130	5	30
3-Nitroaniline	20.0	13.92		ug/L		70	42 - 123	16	30
4,6-Dinitro-2-methylphenol	20.0	15.90		ug/L		80	12 - 157	13	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130473/3-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Aminobiphenyl	20.0	10.67		ug/L		53	20 - 130	2	30
4-Bromophenyl phenyl ether	20.0	13.09		ug/L		65	40 - 126	18	30
4-Chloro-3-methylphenol	20.0	12.24		ug/L		61	40 - 119	15	30
4-Chloroaniline	20.0	11.14		ug/L		56	39 - 111	13	30
4-Chlorophenyl phenyl ether	20.0	12.50		ug/L		62	40 - 122	16	30
4-Nitroaniline	20.0	16.68		ug/L		83	42 - 125	10	30
4-Nitroquinoline-1-oxide	20.0	16.47		ug/L		82	20 - 130	10	30
7,12-Dimethylbenz(a)anthracene	20.0	15.02		ug/L		75	40 - 120	8	30
Acenaphthene	20.0	12.43		ug/L		62	41 - 116	16	30
Acenaphthylene	20.0	12.83		ug/L		64	41 - 118	15	30
Acetophenone	20.0	12.34		ug/L		62	23 - 175	14	30
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0		NC	30
Aniline	20.0	6.666		ug/L		33	31 - 100	2	30
Anthracene	20.0	14.56		ug/L		73	39 - 127	14	30
Benzo[a]anthracene	20.0	17.10		ug/L		85	40 - 129	5	30
Benzo[a]pyrene	20.0	18.18		ug/L		91	36 - 141	8	30
Benzo[b]fluoranthene	20.0	17.04		ug/L		85	34 - 139	5	30
Benzo[g,h,i]perylene	20.0	18.48		ug/L		92	32 - 141	5	30
Benzo[k]fluoranthene	20.0	18.36		ug/L		92	31 - 139	11	30
Benzyl alcohol	20.0	13.15		ug/L		66	37 - 102	15	30
Bis(2-chloroethoxy)methane	20.0	11.96		ug/L		60	36 - 113	10	30
Bis(2-chloroethyl)ether	20.0	12.42		ug/L		62	38 - 111	10	30
Bis(2-ethylhexyl) phthalate	20.0	17.20		ug/L		86	44 - 136	7	30
Butyl benzyl phthalate	20.0	17.93		ug/L		90	44 - 133	8	30
Chrysene	20.0	16.64		ug/L		83	41 - 124	3	30
Dibenz(a,h)anthracene	20.0	18.94		ug/L		95	35 - 143	7	30
Dibenzofuran	20.0	12.83		ug/L		64	41 - 119	18	30
Diethyl phthalate	20.0	13.71		ug/L		69	41 - 125	13	30
Dimethyl phthalate	20.0	13.58		ug/L		68	42 - 123	17	30
Di-n-butyl phthalate	20.0	17.75		ug/L		89	41 - 133	10	30
Di-n-octyl phthalate	20.0	18.02		ug/L		90	34 - 145	8	30
Diphenyl ether	20.0	11.66		ug/L		58	40 - 130	14	30
Ethyl methanesulfonate	20.0	12.85		ug/L		64	40 - 127	15	30
Fluoranthene	20.0	16.69		ug/L		83	38 - 132	8	30
Fluorene	20.0	12.91		ug/L		65	41 - 121	18	30
Hexachlorobenzene	20.0	13.28		ug/L		66	39 - 128	17	30
Hexachlorobutadiene	20.0	11.50		ug/L		58	31 - 120	11	30
Hexachlorocyclopentadiene	20.0	14.30		ug/L		72	15 - 117	15	30
Hexachloroethane	20.0	11.67		ug/L		58	37 - 109	11	30
Hexachloropropene	20.0	11.12		ug/L		56	24 - 122	14	30
Indeno[1,2,3-cd]pyrene	20.0	18.83		ug/L		94	35 - 141	6	30
Isophorone	20.0	12.52		ug/L		63	40 - 115	13	30
Methyl methanesulfonate	20.0	11.11		ug/L		56	33 - 120	11	30
Naphthalene	20.0	11.42		ug/L		57	37 - 113	9	30
Nitrobenzene	20.0	12.49		ug/L		62	37 - 114	14	30
N-Nitro-o-toluidine	20.0	14.89		ug/L		74	40 - 120	15	30
N-Nitrosodiethylamine	20.0	12.79		ug/L		64	42 - 115	10	30
N-Nitrosodimethylamine	20.0	10.39		ug/L		52	28 - 126	12	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130473/3-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodi-n-butylamine	20.0	10.12		ug/L		51	34 - 122	14	30
N-Nitrosodi-n-propylamine	20.0	12.18		ug/L		61	38 - 117	9	30
N-Nitrosodiphenylamine	20.0	14.13		ug/L		71	40 - 127	17	30
N-Nitrosomethylethylamine	20.0	12.44		ug/L		62	41 - 108	9	30
N-Nitrosomorpholine	20.0	12.27		ug/L		61	32 - 115	17	30
N-Nitrosopiperidine	20.0	12.89		ug/L		64	39 - 115	16	30
N-Nitrosopyrrolidine	20.0	13.09		ug/L		65	36 - 121	16	30
p-Dimethylamino azobenzene	20.0	14.62		ug/L		73	38 - 124	8	30
Pentachlorobenzene	20.0	11.93		ug/L		60	40 - 123	17	30
Pentachloronitrobenzene	20.0	14.22		ug/L		71	40 - 120	12	30
Pentachlorophenol	20.0	14.95		ug/L		75	10 - 137	14	30
Phenacetin	20.0	16.10		ug/L		80	20 - 130	14	30
Phenanthrene	20.0	13.95		ug/L		70	39 - 126	14	30
Phenol	20.0	7.702		ug/L		39	15 - 106	15	30
p-Phenylene diamine	20.0	<10.0	U *-	ug/L		0	1 - 150	NC	30
Pronamide	20.0	17.73		ug/L		89	25 - 120	8	30
Pyrene	20.0	15.25		ug/L		76	40 - 130	6	30
Pyridine	20.0	2.431	*-	ug/L		12	16 - 135	4	30
Safrole, Total	20.0	11.81		ug/L		59	40 - 120	14	30
Aramite Peak 2	10.0	7.714		ug/L		77	35 - 130	8	30
Isosafrole Peak 1	3.20	<2.46	U	ug/L		54	40 - 120	16	30
Diallate Peak 2	5.20	3.565	J	ug/L		69	38 - 130	19	30
Isosafrole Peak 2	16.8	10.29		ug/L		61	40 - 120	18	30
Diallate Peak 1	14.8	10.47		ug/L		71	38 - 130	15	30
Aramite Peak 1	10.0	7.221		ug/L		72	35 - 130	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	78		31 - 132
2-Fluorobiphenyl	71		40 - 130
2-Fluorophenol (Surr)	53		21 - 114
Nitrobenzene-d5 (Surr)	71		37 - 130
Phenol-d5 (Surr)	40		16 - 117
p-Terphenyl-d14	108		20 - 141

Lab Sample ID: 860-61041-B-6-B MS

Matrix: Water

Analysis Batch: 131436

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	<0.428	U	20.0	13.22		ug/L		66	41 - 117
1,2,4,5-Tetrachlorobenzene	<0.672	U	20.0	12.43		ug/L		62	39 - 120
1,2,4-Trichlorobenzene	<0.680	U	20.0	12.79		ug/L		64	34 - 117
1,2-Dichlorobenzene	<0.296	U	20.0	12.74		ug/L		64	38 - 111
1,3,5-Trinitrobenzene	<1.43	U	20.0	18.25		ug/L		91	70 - 130
1,3-Dichlorobenzene	<0.350	U F2	20.0	12.64		ug/L		63	37 - 111
1,3-Dinitrobenzene	<0.112	U	20.0	15.44		ug/L		77	36 - 131
1,4-Dichlorobenzene	<0.428	U F2	20.0	12.61		ug/L		63	37 - 111
1,4-Naphthoquinone	<1.85	U F1	20.0	14.89		ug/L		74	70 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61041-B-6-B MS

Matrix: Water

Analysis Batch: 131436

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Naphthylamine	<0.232	U F1	20.0	6.586	F1	ug/L		33	40 - 120
2,2'-oxybis[1-chloropropane]	<0.139	U F2	20.0	13.89		ug/L		69	32 - 110
2,3,4,6-Tetrachlorophenol	<0.174	U	20.0	20.48		ug/L		102	33 - 132
2,4,5-Trichlorophenol	<0.108	U	20.0	17.78		ug/L		89	39 - 125
2,4,6-Trichlorophenol	<0.135	U	20.0	16.86		ug/L		84	42 - 125
2,4-Dichlorophenol	<0.115	U F2	20.0	13.89		ug/L		69	38 - 120
2,4-Dimethylphenol	<0.148	U F2	20.0	17.00		ug/L		83	39 - 117
2,4-Dinitrophenol	<1.46	U	20.0	20.88		ug/L		104	13 - 152
2,4-Dinitrotoluene	<0.127	U	20.0	18.22		ug/L		91	41 - 128
2,6-Dichlorophenol	<0.126	U F2	20.0	13.50		ug/L		67	42 - 118
2,6-Dinitrotoluene	<0.199	U F2	20.0	16.77		ug/L		84	42 - 127
2-Acetylaminofluorene	<1.52	U	20.0	23.12		ug/L		116	70 - 130
2-Chloronaphthalene	<1.09	U	20.0	12.81		ug/L		64	40 - 118
2-Chlorophenol	<0.0135	U F2	20.0	13.13		ug/L		66	41 - 108
2-Methylnaphthalene	<0.480	U F2	20.0	13.60		ug/L		68	37 - 112
2-Methylphenol	<0.159	U F2	20.0	12.33		ug/L		62	36 - 125
2-Naphthylamine	<0.595	U F1	20.0	4.644	J F1	ug/L		23	40 - 120
2-Nitroaniline	<0.163	U F1	20.0	98.75	E F1	ug/L		494	34 - 126
2-Nitrophenol	<0.135	U F2	20.0	15.17		ug/L		76	38 - 125
2-Picoline	<0.215	U F1 F2	20.0	1.808	J F1	ug/L		9	11 - 107
2-Toluidine	<0.934	U F1	20.0	9.857	F1	ug/L		49	70 - 130
3 & 4 Methylphenol	<0.163	U F2	20.0	11.18		ug/L		56	35 - 116
3,3'-Dichlorobenzidine	<0.220	U F1	20.0	<0.220	U F1	ug/L		0	29 - 141
3,3'-Dimethylbenzidine	<0.444	U F1 *-	20.0	0.8785	J F1	ug/L		4	70 - 130
3-Methylcholanthrene	<0.159	U	20.0	20.90		ug/L		104	20 - 130
3-Nitroaniline	<0.344	U	20.0	15.16		ug/L		76	42 - 123
4,6-Dinitro-2-methylphenol	<0.736	U	20.0	21.28		ug/L		106	12 - 157
4-Aminobiphenyl	<0.297	U F1	20.0	3.203	J F1	ug/L		16	20 - 130
4-Bromophenyl phenyl ether	<0.167	U	20.0	16.53		ug/L		83	40 - 126
4-Chloro-3-methylphenol	<0.157	U	20.0	16.16		ug/L		81	40 - 119
4-Chloroaniline	<0.149	U	20.0	11.02		ug/L		55	39 - 111
4-Chlorophenyl phenyl ether	<0.232	U F2	20.0	14.19		ug/L		71	40 - 122
4-Nitroaniline	<0.247	U	20.0	17.06		ug/L		85	42 - 125
4-Nitroquinoline-1-oxide	<2.15	U F1	20.0	10.86	F1	ug/L		54	70 - 130
7,12-Dimethylbenz(a)anthracene	<0.0610	U	20.0	15.32		ug/L		77	40 - 120
Acenaphthene	0.587	J F2	20.0	14.72		ug/L		71	41 - 118
Acenaphthylene	<0.215	U F2	20.0	15.00		ug/L		75	41 - 116
Acetophenone	<0.225	U F2	20.0	12.43		ug/L		62	23 - 125
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	20.0	<4.00	U F1	ug/L		0	70 - 130
Aniline	<0.314	U	20.0	6.918		ug/L		35	31 - 120
Anthracene	<0.154	U	20.0	18.14		ug/L		91	39 - 127
Benzo[a]anthracene	<0.150	U	20.0	19.21		ug/L		96	40 - 129
Benzo[a]pyrene	<0.148	U	20.0	20.82		ug/L		104	36 - 141
Benzo[b]fluoranthene	<0.210	U	20.0	19.00		ug/L		95	34 - 139
Benzo[g,h,i]perylene	<0.143	U	20.0	25.51		ug/L		128	32 - 141
Benzo[k]fluoranthene	<0.166	U	20.0	17.96		ug/L		90	31 - 139
Benzyl alcohol	<4.50	U	20.0	13.73		ug/L		69	37 - 102
Bis(2-chloroethoxy)methane	<0.170	U F2	20.0	12.82		ug/L		64	36 - 113

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61041-B-6-B MS

Matrix: Water

Analysis Batch: 131436

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethyl)ether	<0.278	U F2	20.0	12.74		ug/L		64	38 - 111
Bis(2-ethylhexyl) phthalate	<0.225	U	20.0	18.33		ug/L		92	44 - 136
Butyl benzyl phthalate	<0.150	U	20.0	20.48		ug/L		102	44 - 133
Chrysene	<0.159	U	20.0	18.51		ug/L		93	41 - 124
Dibenz(a,h)anthracene	<0.148	U	20.0	25.08		ug/L		125	35 - 143
Dibenzofuran	<0.336	U F2	20.0	13.87		ug/L		69	41 - 119
Diethyl phthalate	<0.118	U	20.0	16.06		ug/L		80	41 - 125
Dimethyl phthalate	<0.143	U F2	20.0	15.65		ug/L		78	42 - 123
Di-n-butyl phthalate	<0.800	U	20.0	21.14		ug/L		106	41 - 133
Di-n-octyl phthalate	<0.169	U	20.0	19.00		ug/L		95	34 - 145
Diphenyl ether	389	E	20.0	392.1	E 4	ug/L		16	
Ethyl methanesulfonate	<1.38	U F1	20.0	12.67	F1	ug/L		63	70 - 130
Fluoranthene	<0.148	U	20.0	20.14		ug/L		101	38 - 132
Fluorene	<0.205	U F2	20.0	14.83		ug/L		74	41 - 121
Hexachlorobenzene	<0.126	U	20.0	15.68		ug/L		78	39 - 128
Hexachlorobutadiene	<0.252	U F2	20.0	12.74		ug/L		64	31 - 120
Hexachlorocyclopentadiene	<0.431	U	20.0	15.61		ug/L		78	15 - 117
Hexachloroethane	<0.140	U	20.0	11.76		ug/L		59	37 - 109
Hexachloropropene	<0.213	U F2	20.0	12.42		ug/L		62	
Indeno[1,2,3-cd]pyrene	<0.852	U	20.0	25.40		ug/L		127	35 - 141
Isophorone	<0.168	U F2	20.0	14.18		ug/L		71	40 - 115
Methyl methanesulfonate	<0.0610	U F1 F2	20.0	11.34	F1	ug/L		57	70 - 130
Naphthalene	<0.423	U F2	20.0	12.94		ug/L		65	37 - 113
Nitrobenzene	<0.934	U F2	20.0	13.71		ug/L		69	37 - 114
N-Nitro-o-toluidine	<1.31	U	20.0	15.00		ug/L		75	35 - 130
N-Nitrosodiethylamine	<1.54	U F1 F2	20.0	13.39	F1	ug/L		67	70 - 130
N-Nitrosodimethylamine	<0.126	U	20.0	8.784		ug/L		44	28 - 127
N-Nitrosodi-n-butylamine	<1.54	U	20.0	11.37		ug/L		57	34 - 122
N-Nitrosodi-n-propylamine	<0.161	U F2	20.0	13.63		ug/L		68	38 - 117
N-Nitrosodiphenylamine	<0.155	U	20.0	18.61		ug/L		93	40 - 127
N-Nitrosomethylethylamine	<0.199	U F2	20.0	13.29		ug/L		66	28 - 126
N-Nitrosomorpholine	<1.44	U F1 F2	20.0	13.25	F1	ug/L		66	70 - 130
N-Nitrosopiperidine	<1.44	U F2	20.0	13.06		ug/L		65	39 - 115
N-Nitrosopyrrolidine	<1.38	U F2	20.0	13.19		ug/L		66	36 - 121
p-Dimethylamino azobenzene	<0.0579	U	20.0	15.38		ug/L		77	38 - 124
Pentachlorobenzene	<1.18	U F2	20.0	12.98		ug/L		65	40 - 123
Pentachloronitrobenzene	<1.27	U	20.0	18.10		ug/L		91	40 - 120
Pentachlorophenol	<0.441	U	20.0	22.92		ug/L		115	10 - 137
Phenacetin	<1.32	U	20.0	18.81		ug/L		94	20 - 130
Phenanthrene	<0.176	U	20.0	17.41		ug/L		87	39 - 126
Phenol	3.59	J F2	20.0	11.89		ug/L		41	15 - 106
p-Phenylene diamine	<10.0	U F1 *-	20.0	<10.0	U F1	ug/L		0	1 - 150
Pronamide	<1.39	U	20.0	20.74		ug/L		104	25 - 120
Pyrene	<0.159	U	20.0	17.74		ug/L		89	40 - 130
Pyridine	<0.725	U F1 F2 *-	20.0	1.337	J F1	ug/L		7	16 - 135
Safrole, Total	<0.183	U F1	20.0	13.79	F1	ug/L		69	70 - 130
Aramite Peak 2	<2.74	U F2	10.0	11.81		ug/L		118	
Isosafrole Peak 1	<2.46	U F1	3.20	<2.46	U F1	ug/L		0	70 - 130
Diallate Peak 2	<0.602	U F2 F1	5.20	4.605	J	ug/L		89	70 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61041-B-6-B MS

Matrix: Water

Analysis Batch: 131436

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Isosafrole Peak 2	<2.12	U F1	16.8	11.95		ug/L		71	70 - 130
Diallate Peak 1	<0.675	U F2 F1	14.8	14.22		ug/L		96	70 - 130
Aramite Peak 1	<0.670	U F2	10.0	10.88		ug/L		109	
Surrogate	MS %Recovery	MS Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	115		31 - 132						
2-Fluorobiphenyl	86		40 - 130						
2-Fluorophenol (Surr)	54		21 - 114						
Nitrobenzene-d5 (Surr)	77		37 - 130						
Phenol-d5 (Surr)	40		16 - 117						
p-Terphenyl-d14	126		20 - 141						

Lab Sample ID: 860-61041-B-6-C MSD

Matrix: Water

Analysis Batch: 131436

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	<0.428	U	20.0	11.54		ug/L		58	41 - 117	14	30
1,2,4,5-Tetrachlorobenzene	<0.672	U	20.0	10.03		ug/L		50	39 - 120	21	30
1,2,4-Trichlorobenzene	<0.680	U	20.0	9.480		ug/L		47	34 - 117	30	30
1,2-Dichlorobenzene	<0.296	U	20.0	9.414		ug/L		47	38 - 111	30	30
1,3,5-Trinitrobenzene	<1.43	U	20.0	16.34		ug/L		82	70 - 130	11	30
1,3-Dichlorobenzene	<0.350	U F2	20.0	9.121	F2	ug/L		46	37 - 111	32	30
1,3-Dinitrobenzene	<0.112	U	20.0	11.86		ug/L		59	36 - 131	26	30
1,4-Dichlorobenzene	<0.428	U F2	20.0	9.017	F2	ug/L		45	37 - 111	33	30
1,4-Naphthoquinone	<1.85	U F1	20.0	12.73	F1	ug/L		64	70 - 130	16	30
1-Naphthylamine	<0.232	U F1	20.0	7.541	F1	ug/L		38	40 - 120	14	30
2,2'-oxybis[1-chloropropane]	<0.139	U F2	20.0	9.055	F2	ug/L		45	32 - 110	42	30
2,3,4,6-Tetrachlorophenol	<0.174	U	20.0	16.27		ug/L		81	33 - 132	23	30
2,4,5-Trichlorophenol	<0.108	U	20.0	15.09		ug/L		75	39 - 125	16	30
2,4,6-Trichlorophenol	<0.135	U	20.0	12.88		ug/L		64	42 - 125	27	30
2,4-Dichlorophenol	<0.115	U F2	20.0	9.866	F2	ug/L		49	38 - 120	34	30
2,4-Dimethylphenol	<0.148	U F2	20.0	11.40	F2	ug/L		55	39 - 117	39	30
2,4-Dinitrophenol	<1.46	U	20.0	17.20		ug/L		86	13 - 152	19	30
2,4-Dinitrotoluene	<0.127	U	20.0	14.12		ug/L		71	41 - 128	25	30
2,6-Dichlorophenol	<0.126	U F2	20.0	9.568	F2	ug/L		48	42 - 118	34	30
2,6-Dinitrotoluene	<0.199	U F2	20.0	12.16	F2	ug/L		61	42 - 127	32	30
2-Acetylaminofluorene	<1.52	U	20.0	19.82		ug/L		99	70 - 130	15	30
2-Chloronaphthalene	<1.09	U	20.0	12.44		ug/L		62	40 - 118	3	30
2-Chlorophenol	<0.0135	U F2	20.0	9.211	F2	ug/L		46	41 - 108	35	30
2-Methylnaphthalene	<0.480	U F2	20.0	9.687	F2	ug/L		48	37 - 112	34	30
2-Methylphenol	<0.159	U F2	20.0	8.637	F2	ug/L		43	36 - 125	35	30
2-Naphthylamine	<0.595	U F1	20.0	5.471	J F1	ug/L		27	40 - 120	16	30
2-Nitroaniline	<0.163	U F1	20.0	84.77	E F1	ug/L		424	34 - 126	15	30
2-Nitrophenol	<0.135	U F2	20.0	10.10	F2	ug/L		51	38 - 125	40	30
2-Picoline	<0.215	U F1 F2	20.0	3.495	F2	ug/L		17	11 - 107	64	30
2-Toluidine	<0.934	U F1	20.0	8.043	F1	ug/L		40	70 - 130	20	30
3 & 4 Methylphenol	<0.163	U F2	20.0	8.128	F2	ug/L		41	35 - 116	32	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61041-B-6-C MSD

Matrix: Water

Analysis Batch: 131436

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine	<0.220	U F1	20.0	<0.220	U F1	ug/L		0	29 - 141	NC	30
3,3'-Dimethylbenzidine	<0.444	U F1 *	20.0	0.6706	J F1	ug/L		3	70 - 130	27	30
3-Methylcholanthrene	<0.159	U	20.0	18.54		ug/L		93	20 - 130	12	30
3-Nitroaniline	<0.344	U	20.0	13.73		ug/L		69	42 - 123	10	30
4,6-Dinitro-2-methylphenol	<0.736	U	20.0	18.03		ug/L		90	12 - 157	16	30
4-Aminobiphenyl	<0.297	U F1	20.0	3.806	J F1	ug/L		19	20 - 130	17	30
4-Bromophenyl phenyl ether	<0.167	U	20.0	12.26		ug/L		61	40 - 126	30	30
4-Chloro-3-methylphenol	<0.157	U	20.0	11.98		ug/L		60	40 - 119	30	30
4-Chloroaniline	<0.149	U	20.0	8.353		ug/L		42	39 - 111	28	30
4-Chlorophenyl phenyl ether	<0.232	U F2	20.0	10.17	F2	ug/L		51	40 - 122	33	30
4-Nitroaniline	<0.247	U	20.0	14.10		ug/L		71	42 - 125	19	30
4-Nitroquinoline-1-oxide	<2.15	U F1	20.0	8.832	F1	ug/L		44	70 - 130	21	30
7,12-Dimethylbenz(a)anthracene	<0.0610	U	20.0	13.24		ug/L		66	40 - 120	15	30
Acenaphthene	0.587	J F2	20.0	10.16	F2	ug/L		48	41 - 118	37	30
Acenaphthylene	<0.215	U F2	20.0	10.17	F2	ug/L		51	41 - 116	38	30
Acetophenone	<0.225	U F2	20.0	8.804	F2	ug/L		44	23 - 125	34	30
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	20.0	<4.00	U F1	ug/L		0	70 - 130	NC	
Aniline	<0.314	U	20.0	7.224		ug/L		36	31 - 120	4	30
Anthracene	<0.154	U	20.0	14.01		ug/L		70	39 - 127	26	30
Benzo[a]anthracene	<0.150	U	20.0	17.39		ug/L		87	40 - 129	10	30
Benzo[a]pyrene	<0.148	U	20.0	18.56		ug/L		93	36 - 141	11	30
Benzo[b]fluoranthene	<0.210	U	20.0	16.45		ug/L		82	34 - 139	14	30
Benzo[g,h,i]perylene	<0.143	U	20.0	24.31		ug/L		122	32 - 141	5	30
Benzo[k]fluoranthene	<0.166	U	20.0	16.19		ug/L		81	31 - 139	10	30
Benzyl alcohol	<4.50	U	20.0	10.19		ug/L		51	37 - 102	30	30
Bis(2-chloroethoxy)methane	<0.170	U F2	20.0	8.803	F2	ug/L		44	36 - 113	37	30
Bis(2-chloroethyl)ether	<0.278	U F2	20.0	9.019	F2	ug/L		45	38 - 111	34	30
Bis(2-ethylhexyl) phthalate	<0.225	U	20.0	15.62		ug/L		78	44 - 136	16	30
Butyl benzyl phthalate	<0.150	U	20.0	16.45		ug/L		82	44 - 133	22	30
Chrysene	<0.159	U	20.0	15.61		ug/L		78	41 - 124	17	30
Dibenz(a,h)anthracene	<0.148	U	20.0	23.78		ug/L		119	35 - 143	5	30
Dibenzofuran	<0.336	U F2	20.0	9.899	F2	ug/L		49	41 - 119	33	30
Diethyl phthalate	<0.118	U	20.0	12.25		ug/L		61	41 - 125	27	30
Dimethyl phthalate	<0.143	U F2	20.0	11.46	F2	ug/L		57	42 - 123	31	30
Di-n-butyl phthalate	<0.800	U	20.0	18.50		ug/L		92	41 - 133	13	30
Di-n-octyl phthalate	<0.169	U	20.0	16.16		ug/L		81	34 - 145	16	30
Diphenyl ether	389	E	20.0	320.7	E 4	ug/L		-341		20	30
Ethyl methanesulfonate	<1.38	U F1	20.0	9.421	F1	ug/L		47	70 - 130	29	30
Fluoranthene	<0.148	U	20.0	17.49		ug/L		87	38 - 132	14	30
Fluorene	<0.205	U F2	20.0	10.34	F2	ug/L		52	41 - 121	36	30
Hexachlorobenzene	<0.126	U	20.0	11.78		ug/L		59	39 - 128	28	30
Hexachlorobutadiene	<0.252	U F2	20.0	9.212	F2	ug/L		46	31 - 120	32	30
Hexachlorocyclopentadiene	<0.431	U	20.0	12.31		ug/L		62	15 - 117	24	30
Hexachloroethane	<0.140	U	20.0	9.382		ug/L		47	37 - 109	22	30
Hexachloropropene	<0.213	U F2	20.0	9.125	F2	ug/L		46		31	30
Indeno[1,2,3-cd]pyrene	<0.852	U	20.0	24.16		ug/L		121	35 - 141	5	30
Isophorone	<0.168	U F2	20.0	9.317	F2	ug/L		47	40 - 115	41	30
Methyl methanesulfonate	<0.0610	U F1 F2	20.0	8.092	F2 F1	ug/L		40	70 - 130	33	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61041-B-6-C MSD

Matrix: Water

Analysis Batch: 131436

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 130473

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	<0.423	U F2	20.0	9.112	F2	ug/L		46	37 - 113	35	30
Nitrobenzene	<0.934	U F2	20.0	9.333	F2	ug/L		47	37 - 114	38	30
N-Nitro-o-toluidine	<1.31	U	20.0	13.39		ug/L		67	35 - 130	11	30
N-Nitrosodiethylamine	<1.54	U F1 F2	20.0	9.488	F2 F1	ug/L		47	70 - 130	34	30
N-Nitrosodimethylamine	<0.126	U	20.0	7.186		ug/L		36	28 - 127	20	30
N-Nitrosodi-n-butylamine	<1.54	U	20.0	8.762		ug/L		44	34 - 122	26	30
N-Nitrosodi-n-propylamine	<0.161	U F2	20.0	9.722	F2	ug/L		49	38 - 117	34	30
N-Nitrosodiphenylamine	<0.155	U	20.0	14.44		ug/L		72	40 - 127	25	30
N-Nitrosomethylethylamine	<0.199	U F2	20.0	9.128	F2	ug/L		46	28 - 126	37	30
N-Nitrosomorpholine	<1.44	U F1 F2	20.0	9.146	F2 F1	ug/L		46	70 - 130	37	30
N-Nitrosopiperidine	<1.44	U F2	20.0	8.858	F2	ug/L		44	39 - 115	38	30
N-Nitrosopyrrolidine	<1.38	U F2	20.0	9.178	F2	ug/L		46	36 - 121	36	30
p-Dimethylamino azobenzene	<0.0579	U	20.0	12.09		ug/L		60	38 - 124	24	30
Pentachlorobenzene	<1.18	U F2	20.0	9.418	F2	ug/L		47	40 - 123	32	30
Pentachloronitrobenzene	<1.27	U	20.0	13.75		ug/L		69	40 - 120	27	30
Pentachlorophenol	<0.441	U	20.0	19.95		ug/L		100	10 - 137	14	30
Phenacetin	<1.32	U	20.0	17.34		ug/L		87	20 - 130	8	30
Phenanthrene	<0.176	U	20.0	13.29		ug/L		66	39 - 126	27	30
Phenol	3.59	J F2	20.0	8.628	F2	ug/L		25	15 - 106	32	30
p-Phenylene diamine	<10.0	U F1 *-	20.0	<10.0	U F1	ug/L		0	1 - 150	NC	50
Pronamide	<1.39	U	20.0	18.39		ug/L		92	25 - 120	12	30
Pyrene	<0.159	U	20.0	13.48		ug/L		67	40 - 130	27	30
Pyridine	<0.725	U F1 F2 *-	20.0	3.072	F2 F1	ug/L		15	16 - 135	79	30
Safrole, Total	<0.183	U F1	20.0	10.22	F1	ug/L		51	70 - 130	30	30
Aramite Peak 2	<2.74	U F2	10.0	7.916	F2	ug/L		79		39	30
Isosafrole Peak 1	<2.46	U F1	3.20	<2.46	U F1	ug/L		0	70 - 130	NC	30
Diallate Peak 2	<0.602	U F2 F1	5.20	3.063	J F2 F1	ug/L		59	70 - 130	40	30
Isosafrole Peak 2	<2.12	U F1	16.8	9.951	F1	ug/L		59	70 - 130	18	30
Diallate Peak 1	<0.675	U F2 F1	14.8	9.879	F2 F1	ug/L		67	70 - 130	36	30
Aramite Peak 1	<0.670	U F2	10.0	7.612	F2	ug/L		76		35	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	96		31 - 132
2-Fluorobiphenyl	73		40 - 130
2-Fluorophenol (Surr)	40		21 - 114
Nitrobenzene-d5 (Surr)	59		37 - 130
Phenol-d5 (Surr)	29		16 - 117
p-Terphenyl-d14	99		20 - 141

Lab Sample ID: MB 860-130701/1-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/13/23 09:25	11/15/23 11:44	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/13/23 09:25	11/15/23 11:44	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/13/23 09:25	11/15/23 11:44	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/13/23 09:25	11/15/23 11:44	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130701/1-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/13/23 09:25	11/15/23 11:44	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/13/23 09:25	11/15/23 11:44	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/13/23 09:25	11/15/23 11:44	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/13/23 09:25	11/15/23 11:44	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/13/23 09:25	11/15/23 11:44	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/13/23 09:25	11/15/23 11:44	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/13/23 09:25	11/15/23 11:44	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/13/23 09:25	11/15/23 11:44	1
3,3'-Dimethylbenzidine	<0.444	U	8.00	0.444	ug/L		11/13/23 09:25	11/15/23 11:44	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/13/23 09:25	11/15/23 11:44	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/13/23 09:25	11/15/23 11:44	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/13/23 09:25	11/15/23 11:44	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/13/23 09:25	11/15/23 11:44	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/13/23 09:25	11/15/23 11:44	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/13/23 09:25	11/15/23 11:44	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/13/23 09:25	11/15/23 11:44	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/13/23 09:25	11/15/23 11:44	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/13/23 09:25	11/15/23 11:44	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/13/23 09:25	11/15/23 11:44	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/13/23 09:25	11/15/23 11:44	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/13/23 09:25	11/15/23 11:44	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/13/23 09:25	11/15/23 11:44	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/13/23 09:25	11/15/23 11:44	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/13/23 09:25	11/15/23 11:44	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/13/23 09:25	11/15/23 11:44	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/13/23 09:25	11/15/23 11:44	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/13/23 09:25	11/15/23 11:44	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/13/23 09:25	11/15/23 11:44	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 11:44	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130701/1-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/13/23 09:25	11/15/23 11:44	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/13/23 09:25	11/15/23 11:44	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/13/23 09:25	11/15/23 11:44	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/13/23 09:25	11/15/23 11:44	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/13/23 09:25	11/15/23 11:44	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/13/23 09:25	11/15/23 11:44	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/13/23 09:25	11/15/23 11:44	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/13/23 09:25	11/15/23 11:44	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/13/23 09:25	11/15/23 11:44	1
Diallylate	<0.602	U	8.00	0.602	ug/L		11/13/23 09:25	11/15/23 11:44	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 11:44	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/13/23 09:25	11/15/23 11:44	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/13/23 09:25	11/15/23 11:44	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/13/23 09:25	11/15/23 11:44	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/13/23 09:25	11/15/23 11:44	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/13/23 09:25	11/15/23 11:44	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/13/23 09:25	11/15/23 11:44	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/13/23 09:25	11/15/23 11:44	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/13/23 09:25	11/15/23 11:44	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/13/23 09:25	11/15/23 11:44	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/13/23 09:25	11/15/23 11:44	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/13/23 09:25	11/15/23 11:44	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/13/23 09:25	11/15/23 11:44	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 11:44	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/13/23 09:25	11/15/23 11:44	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/13/23 09:25	11/15/23 11:44	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/13/23 09:25	11/15/23 11:44	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/13/23 09:25	11/15/23 11:44	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/13/23 09:25	11/15/23 11:44	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/13/23 09:25	11/15/23 11:44	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/13/23 09:25	11/15/23 11:44	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/13/23 09:25	11/15/23 11:44	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/13/23 09:25	11/15/23 11:44	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/13/23 09:25	11/15/23 11:44	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/13/23 09:25	11/15/23 11:44	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/13/23 09:25	11/15/23 11:44	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/13/23 09:25	11/15/23 11:44	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/13/23 09:25	11/15/23 11:44	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/13/23 09:25	11/15/23 11:44	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130701/1-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/13/23 09:25	11/15/23 11:44	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/13/23 09:25	11/15/23 11:44	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/13/23 09:25	11/15/23 11:44	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/13/23 09:25	11/15/23 11:44	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/13/23 09:25	11/15/23 11:44	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/13/23 09:25	11/15/23 11:44	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/13/23 09:25	11/15/23 11:44	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/13/23 09:25	11/15/23 11:44	1
p-Phenylene diamine	<10.0	U	10.0	10.0	ug/L		11/13/23 09:25	11/15/23 11:44	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/13/23 09:25	11/15/23 11:44	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/13/23 09:25	11/15/23 11:44	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/13/23 09:25	11/15/23 11:44	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/13/23 09:25	11/15/23 11:44	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/13/23 09:25	11/15/23 11:44	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/13/23 09:25	11/15/23 11:44	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/13/23 09:25	11/15/23 11:44	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/13/23 09:25	11/15/23 11:44	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/13/23 09:25	11/15/23 11:44	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/13/23 09:25	11/15/23 11:44	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/13/23 09:25	11/15/23 11:44	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/13/23 09:25	11/15/23 11:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	53		31 - 132	11/13/23 09:25	11/15/23 11:44	1
2-Fluorobiphenyl	72		40 - 130	11/13/23 09:25	11/15/23 11:44	1
2-Fluorophenol (Surr)	49		21 - 114	11/13/23 09:25	11/15/23 11:44	1
Nitrobenzene-d5 (Surr)	71		37 - 130	11/13/23 09:25	11/15/23 11:44	1
Phenol-d5 (Surr)	33		16 - 117	11/13/23 09:25	11/15/23 11:44	1
p-Terphenyl-d14	99		20 - 141	11/13/23 09:25	11/15/23 11:44	1

Lab Sample ID: LCS 860-130701/2-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1'-Biphenyl	20.0	12.34		ug/L		62	41 - 117
1,2,4,5-Tetrachlorobenzene	20.0	12.06		ug/L		60	39 - 120
1,2,4-Trichlorobenzene	20.0	11.88		ug/L		59	34 - 117
1,2-Dichlorobenzene	20.0	12.65		ug/L		63	38 - 111
1,3,5-Trinitrobenzene	20.0	15.98		ug/L		80	35 - 128
1,3-Dichlorobenzene	20.0	12.57		ug/L		63	37 - 111
1,3-Dinitrobenzene	20.0	12.91		ug/L		65	36 - 131
1,4-Dichlorobenzene	20.0	12.42		ug/L		62	37 - 111
1,4-Naphthoquinone	20.0	13.50		ug/L		68	10 - 150
1-Naphthylamine	20.0	11.41		ug/L		57	40 - 120
2,2'-oxybis[1-chloropropane]	20.0	13.43		ug/L		67	10 - 150
2,3,4,6-Tetrachlorophenol	20.0	14.24		ug/L		71	33 - 132
2,4,5-Trichlorophenol	20.0	14.64		ug/L		73	39 - 125

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130701/2-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,6-Trichlorophenol	20.0	13.24		ug/L		66	42 - 125
2,4-Dichlorophenol	20.0	12.89		ug/L		64	38 - 120
2,4-Dimethylphenol	20.0	15.06		ug/L		75	39 - 117
2,4-Dinitrophenol	20.0	13.64		ug/L		68	13 - 152
2,4-Dinitrotoluene	20.0	14.16		ug/L		71	41 - 128
2,6-Dichlorophenol	20.0	12.63		ug/L		63	42 - 118
2,6-Dinitrotoluene	20.0	13.57		ug/L		68	42 - 127
2-Acetylaminofluorene	20.0	13.50		ug/L		68	40 - 130
2-Chloronaphthalene	20.0	13.21		ug/L		66	40 - 118
2-Chlorophenol	20.0	12.70		ug/L		63	41 - 108
2-Methylnaphthalene	20.0	11.93		ug/L		60	37 - 112
2-Methylphenol	20.0	12.40		ug/L		62	36 - 125
2-Naphthylamine	20.0	11.39		ug/L		57	40 - 120
2-Nitroaniline	20.0	14.30		ug/L		71	34 - 126
2-Nitrophenol	20.0	12.47		ug/L		62	38 - 125
2-Picoline	20.0	3.468		ug/L		17	11 - 107
2-Toluidine	20.0	10.34		ug/L		52	38 - 124
3 & 4 Methylphenol	20.0	11.74		ug/L		59	35 - 116
3,3'-Dichlorobenzidine	20.0	14.91		ug/L		75	29 - 141
3,3'-Dimethylbenzidine	20.0	2.587	J *	ug/L		13	40 - 130
3-Methylcholanthrene	20.0	16.11		ug/L		81	20 - 130
3-Nitroaniline	20.0	13.72		ug/L		69	42 - 123
4,6-Dinitro-2-methylphenol	20.0	14.18		ug/L		71	12 - 157
4-Aminobiphenyl	20.0	10.79		ug/L		54	20 - 130
4-Bromophenyl phenyl ether	20.0	12.66		ug/L		63	40 - 126
4-Chloro-3-methylphenol	20.0	12.09		ug/L		60	40 - 119
4-Chloroaniline	20.0	11.55		ug/L		58	39 - 111
4-Chlorophenyl phenyl ether	20.0	12.38		ug/L		62	40 - 122
4-Nitroaniline	20.0	16.01		ug/L		80	42 - 125
4-Nitroquinoline-1-oxide	20.0	14.51		ug/L		73	20 - 130
7,12-Dimethylbenz(a)anthracene	20.0	12.85		ug/L		64	40 - 120
Acenaphthene	20.0	13.02		ug/L		65	41 - 116
Acenaphthylene	20.0	13.38		ug/L		67	41 - 118
Acetophenone	20.0	12.52		ug/L		63	23 - 175
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0	
Aniline	20.0	6.892		ug/L		34	31 - 100
Anthracene	20.0	14.43		ug/L		72	39 - 127
Benzo[a]anthracene	20.0	15.40		ug/L		77	40 - 129
Benzo[a]pyrene	20.0	16.65		ug/L		83	36 - 141
Benzo[b]fluoranthene	20.0	15.44		ug/L		77	34 - 139
Benzo[g,h,i]perylene	20.0	18.33		ug/L		92	32 - 141
Benzo[k]fluoranthene	20.0	15.64		ug/L		78	31 - 139
Benzyl alcohol	20.0	13.76		ug/L		69	37 - 102
Bis(2-chloroethoxy)methane	20.0	12.97		ug/L		65	36 - 113
Bis(2-chloroethyl)ether	20.0	13.47		ug/L		67	38 - 111
Bis(2-ethylhexyl) phthalate	20.0	14.12		ug/L		71	44 - 136
Butyl benzyl phthalate	20.0	15.09		ug/L		75	44 - 133
Chrysene	20.0	15.59		ug/L		78	41 - 124

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130701/2-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dibenz(a,h)anthracene	20.0	18.34		ug/L		92	35 - 143
Dibenzofuran	20.0	13.14		ug/L		66	41 - 119
Diethyl phthalate	20.0	13.11		ug/L		66	41 - 125
Dimethyl phthalate	20.0	13.49		ug/L		67	42 - 123
Di-n-butyl phthalate	20.0	16.13		ug/L		81	41 - 133
Di-n-octyl phthalate	20.0	14.57		ug/L		73	34 - 145
Diphenyl ether	20.0	12.22		ug/L		61	40 - 130
Ethyl methanesulfonate	20.0	13.63		ug/L		68	40 - 127
Fluoranthene	20.0	15.77		ug/L		79	38 - 132
Fluorene	20.0	12.95		ug/L		65	41 - 121
Hexachlorobenzene	20.0	12.91		ug/L		65	39 - 128
Hexachlorobutadiene	20.0	11.74		ug/L		59	31 - 120
Hexachlorocyclopentadiene	20.0	14.02		ug/L		70	15 - 117
Hexachloroethane	20.0	11.65		ug/L		58	37 - 109
Hexachloropropene	20.0	10.36		ug/L		52	24 - 122
Indeno[1,2,3-cd]pyrene	20.0	18.59		ug/L		93	35 - 141
Isophorone	20.0	13.26		ug/L		66	40 - 115
Methyl methanesulfonate	20.0	12.12		ug/L		61	33 - 120
Naphthalene	20.0	12.31		ug/L		62	37 - 113
Nitrobenzene	20.0	13.64		ug/L		68	37 - 114
N-Nitro-o-toluidine	20.0	14.51		ug/L		73	40 - 120
N-Nitrosodiethylamine	20.0	13.62		ug/L		68	42 - 115
N-Nitrosodimethylamine	20.0	12.04		ug/L		60	28 - 126
N-Nitrosodi-n-butylamine	20.0	10.09		ug/L		50	34 - 122
N-Nitrosodi-n-propylamine	20.0	13.30		ug/L		66	38 - 117
N-Nitrosodiphenylamine	20.0	13.99		ug/L		70	40 - 127
N-Nitrosomethylethylamine	20.0	13.38		ug/L		67	41 - 108
N-Nitrosomorpholine	20.0	12.87		ug/L		64	32 - 115
N-Nitrosopiperidine	20.0	12.41		ug/L		62	39 - 115
N-Nitrosopyrrolidine	20.0	13.30		ug/L		67	36 - 121
p-Dimethylamino azobenzene	20.0	12.51		ug/L		63	38 - 124
Pentachlorobenzene	20.0	11.63		ug/L		58	40 - 123
Pentachloronitrobenzene	20.0	13.55		ug/L		68	40 - 120
Pentachlorophenol	20.0	13.98		ug/L		70	10 - 137
Phenacetin	20.0	14.88		ug/L		74	20 - 130
Phenanthrene	20.0	13.61		ug/L		68	39 - 126
Phenol	20.0	8.341		ug/L		42	15 - 106
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150
Pronamide	20.0	15.98		ug/L		80	25 - 120
Pyrene	20.0	13.59		ug/L		68	40 - 130
Pyridine	20.0	4.186		ug/L		21	16 - 135
Safrole, Total	20.0	12.91		ug/L		65	40 - 120
Aramite Peak 2	10.0	5.545		ug/L		55	35 - 130
Isosafrole Peak 1	3.20	<2.46	U	ug/L		56	40 - 120
Diallate Peak 2	5.20	3.591	J	ug/L		69	38 - 130
Isosafrole Peak 2	16.8	10.96		ug/L		65	40 - 120
Diallate Peak 1	14.8	11.01		ug/L		74	38 - 130
Aramite Peak 1	10.0	5.593		ug/L		56	35 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130701/2-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130701

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	77		31 - 132
2-Fluorobiphenyl	77		40 - 130
2-Fluorophenol (Surr)	62		21 - 114
Nitrobenzene-d5 (Surr)	81		37 - 130
Phenol-d5 (Surr)	47		16 - 117
p-Terphenyl-d14	96		20 - 141

Lab Sample ID: LCSD 860-130701/3-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130701

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	20.0	13.34		ug/L		67	41 - 117	8	30
1,2,4,5-Tetrachlorobenzene	20.0	12.97		ug/L		65	39 - 120	7	30
1,2,4-Trichlorobenzene	20.0	13.05		ug/L		65	34 - 117	9	30
1,2-Dichlorobenzene	20.0	13.28		ug/L		66	38 - 111	5	30
1,3,5-Trinitrobenzene	20.0	16.72		ug/L		84	35 - 128	5	30
1,3-Dichlorobenzene	20.0	13.45		ug/L		67	37 - 111	7	30
1,3-Dinitrobenzene	20.0	14.50		ug/L		73	36 - 131	12	30
1,4-Dichlorobenzene	20.0	13.36		ug/L		67	37 - 111	7	30
1,4-Naphthoquinone	20.0	15.24		ug/L		76	10 - 150	12	30
1-Naphthylamine	20.0	12.05		ug/L		60	40 - 120	5	30
2,2'-oxybis[1-chloropropane]	20.0	13.74		ug/L		69	10 - 150	2	30
2,3,4,6-Tetrachlorophenol	20.0	15.39		ug/L		77	33 - 132	8	30
2,4,5-Trichlorophenol	20.0	16.06		ug/L		80	39 - 125	9	30
2,4,6-Trichlorophenol	20.0	14.72		ug/L		74	42 - 125	11	30
2,4-Dichlorophenol	20.0	14.16		ug/L		71	38 - 120	9	30
2,4-Dimethylphenol	20.0	16.90		ug/L		85	39 - 117	12	30
2,4-Dinitrophenol	20.0	15.07		ug/L		75	13 - 152	10	30
2,4-Dinitrotoluene	20.0	15.48		ug/L		77	41 - 128	9	30
2,6-Dichlorophenol	20.0	13.19		ug/L		66	42 - 118	4	30
2,6-Dinitrotoluene	20.0	15.10		ug/L		76	42 - 127	11	30
2-Acetylaminofluorene	20.0	13.65		ug/L		68	40 - 130	1	30
2-Chloronaphthalene	20.0	14.44		ug/L		72	40 - 118	9	30
2-Chlorophenol	20.0	13.70		ug/L		69	41 - 108	8	30
2-Methylnaphthalene	20.0	13.22		ug/L		66	37 - 112	10	30
2-Methylphenol	20.0	13.52		ug/L		68	36 - 125	9	30
2-Naphthylamine	20.0	11.90		ug/L		59	40 - 120	4	30
2-Nitroaniline	20.0	16.42		ug/L		82	34 - 126	14	30
2-Nitrophenol	20.0	14.22		ug/L		71	38 - 125	13	30
2-Picoline	20.0	3.192		ug/L		16	11 - 107	8	30
2-Toluidine	20.0	11.41		ug/L		57	38 - 124	10	30
3 & 4 Methylphenol	20.0	12.48		ug/L		62	35 - 116	6	30
3,3'-Dichlorobenzidine	20.0	14.84		ug/L		74	29 - 141	0	30
3,3'-Dimethylbenzidine	20.0	2.069	J *	ug/L		10	40 - 130	22	30
3-Methylcholanthrene	20.0	16.07		ug/L		80	20 - 130	0	30
3-Nitroaniline	20.0	15.80		ug/L		79	42 - 123	14	30
4,6-Dinitro-2-methylphenol	20.0	15.32		ug/L		77	12 - 157	8	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130701/3-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130701

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Aminobiphenyl	20.0	11.03		ug/L		55	20 - 130	2	30
4-Bromophenyl phenyl ether	20.0	13.78		ug/L		69	40 - 126	9	30
4-Chloro-3-methylphenol	20.0	13.40		ug/L		67	40 - 119	10	30
4-Chloroaniline	20.0	12.61		ug/L		63	39 - 111	9	30
4-Chlorophenyl phenyl ether	20.0	13.47		ug/L		67	40 - 122	8	30
4-Nitroaniline	20.0	16.54		ug/L		83	42 - 125	3	30
4-Nitroquinoline-1-oxide	20.0	14.85		ug/L		74	20 - 130	2	30
7,12-Dimethylbenz(a)anthracene	20.0	12.02		ug/L		60	40 - 120	7	30
Acenaphthene	20.0	14.07		ug/L		70	41 - 116	8	30
Acenaphthylene	20.0	14.81		ug/L		74	41 - 118	10	30
Acetophenone	20.0	13.38		ug/L		67	23 - 175	7	30
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0		NC	30
Aniline	20.0	7.972		ug/L		40	31 - 100	15	30
Anthracene	20.0	14.88		ug/L		74	39 - 127	3	30
Benzo[a]anthracene	20.0	15.61		ug/L		78	40 - 129	1	30
Benzo[a]pyrene	20.0	16.42		ug/L		82	36 - 141	1	30
Benzo[b]fluoranthene	20.0	15.06		ug/L		75	34 - 139	2	30
Benzo[g,h,i]perylene	20.0	19.17		ug/L		96	32 - 141	4	30
Benzo[k]fluoranthene	20.0	14.96		ug/L		75	31 - 139	4	30
Benzyl alcohol	20.0	14.44		ug/L		72	37 - 102	5	30
Bis(2-chloroethoxy)methane	20.0	13.60		ug/L		68	36 - 113	5	30
Bis(2-chloroethyl)ether	20.0	14.43		ug/L		72	38 - 111	7	30
Bis(2-ethylhexyl) phthalate	20.0	13.74		ug/L		69	44 - 136	3	30
Butyl benzyl phthalate	20.0	14.78		ug/L		74	44 - 133	2	30
Chrysene	20.0	15.48		ug/L		77	41 - 124	1	30
Dibenz(a,h)anthracene	20.0	18.45		ug/L		92	35 - 143	1	30
Dibenzofuran	20.0	14.15		ug/L		71	41 - 119	7	30
Diethyl phthalate	20.0	13.79		ug/L		69	41 - 125	5	30
Dimethyl phthalate	20.0	14.52		ug/L		73	42 - 123	7	30
Di-n-butyl phthalate	20.0	16.42		ug/L		82	41 - 133	2	30
Di-n-octyl phthalate	20.0	14.07		ug/L		70	34 - 145	3	30
Diphenyl ether	20.0	13.01		ug/L		65	40 - 130	6	30
Ethyl methanesulfonate	20.0	14.50		ug/L		73	40 - 127	6	30
Fluoranthene	20.0	15.96		ug/L		80	38 - 132	1	30
Fluorene	20.0	14.02		ug/L		70	41 - 121	8	30
Hexachlorobenzene	20.0	13.52		ug/L		68	39 - 128	5	30
Hexachlorobutadiene	20.0	12.43		ug/L		62	31 - 120	6	30
Hexachlorocyclopentadiene	20.0	15.33		ug/L		77	15 - 117	9	30
Hexachloroethane	20.0	12.56		ug/L		63	37 - 109	8	30
Hexachloropropene	20.0	11.42		ug/L		57	24 - 122	10	30
Indeno[1,2,3-cd]pyrene	20.0	18.88		ug/L		94	35 - 141	2	30
Isophorone	20.0	14.25		ug/L		71	40 - 115	7	30
Methyl methanesulfonate	20.0	12.71		ug/L		64	33 - 120	5	30
Naphthalene	20.0	13.33		ug/L		67	37 - 113	8	30
Nitrobenzene	20.0	14.64		ug/L		73	37 - 114	7	30
N-Nitro-o-toluidine	20.0	15.15		ug/L		76	40 - 120	4	30
N-Nitrosodiethylamine	20.0	14.34		ug/L		72	42 - 115	5	30
N-Nitrosodimethylamine	20.0	12.77		ug/L		64	28 - 126	6	30

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130701/3-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130701

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodi-n-butylamine	20.0	10.78		ug/L		54	34 - 122	7	30
N-Nitrosodi-n-propylamine	20.0	13.92		ug/L		70	38 - 117	5	30
N-Nitrosodiphenylamine	20.0	15.60		ug/L		78	40 - 127	11	30
N-Nitrosomethylethylamine	20.0	15.17		ug/L		76	41 - 108	13	30
N-Nitrosomorpholine	20.0	13.70		ug/L		69	32 - 115	6	30
N-Nitrosopiperidine	20.0	13.52		ug/L		68	39 - 115	9	30
N-Nitrosopyrrolidine	20.0	14.27		ug/L		71	36 - 121	7	30
p-Dimethylamino azobenzene	20.0	12.47		ug/L		62	38 - 124	0	30
Pentachlorobenzene	20.0	12.96		ug/L		65	40 - 123	11	30
Pentachloronitrobenzene	20.0	14.13		ug/L		71	40 - 120	4	30
Pentachlorophenol	20.0	14.64		ug/L		73	10 - 137	5	30
Phenacetin	20.0	14.31		ug/L		72	20 - 130	4	30
Phenanthrene	20.0	14.58		ug/L		73	39 - 126	7	30
Phenol	20.0	9.218		ug/L		46	15 - 106	10	30
p-Phenylene diamine	20.0	<10.0	U *-	ug/L		0	1 - 150	NC	30
Pronamide	20.0	15.60		ug/L		78	25 - 120	2	30
Pyrene	20.0	14.09		ug/L		70	40 - 130	4	30
Pyridine	20.0	4.256		ug/L		21	16 - 135	2	30
Safrole, Total	20.0	14.21		ug/L		71	40 - 120	10	30
Aramite Peak 2	10.0	5.794		ug/L		58	35 - 130	4	30
Isosafrole Peak 1	3.20	<2.46	U	ug/L		65	40 - 120	14	30
Diallate Peak 2	5.20	3.658	J	ug/L		70	38 - 130	2	30
Isosafrole Peak 2	16.8	11.77		ug/L		70	40 - 120	7	30
Diallate Peak 1	14.8	11.29		ug/L		76	38 - 130	3	30
Aramite Peak 1	10.0	6.032		ug/L		60	35 - 130	8	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	83		31 - 132
2-Fluorobiphenyl	82		40 - 130
2-Fluorophenol (Surr)	65		21 - 114
Nitrobenzene-d5 (Surr)	87		37 - 130
Phenol-d5 (Surr)	49		16 - 117
p-Terphenyl-d14	95		20 - 141

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

GC/MS VOA

Analysis Batch: 130327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61059-1	MW-85	Total/NA	Water	8260D	
860-61059-2	MW-86	Total/NA	Water	8260D	
860-61059-3	MW-87	Total/NA	Water	8260D	
860-61059-4	MW-79	Total/NA	Water	8260D	
860-61059-5	MW-39	Total/NA	Water	8260D	
860-61059-6	TB-01(110723)	Total/NA	Water	8260D	
MB 860-130327/10	Method Blank	Total/NA	Water	8260D	
LCS 860-130327/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-130327/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61041-F-6 MS	Matrix Spike	Total/NA	Water	8260D	
860-61041-F-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 130405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61059-1	MW-85	Total/NA	Water	3511	
860-61059-2	MW-86	Total/NA	Water	3511	
860-61059-3	MW-87	Total/NA	Water	3511	
860-61059-4	MW-79	Total/NA	Water	3511	
860-61059-5	MW-39	Total/NA	Water	3511	
MB 860-130405/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-130405/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-130405/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
860-61041-C-6-B MS	Matrix Spike	Total/NA	Water	3511	
860-61041-C-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	3511	

Prep Batch: 130473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61059-1	MW-85	Total/NA	Water	3510C	
860-61059-2	MW-86	Total/NA	Water	3510C	
860-61059-3	MW-87	Total/NA	Water	3510C	
MB 860-130473/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-130473/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-130473/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
860-61041-B-6-B MS	Matrix Spike	Total/NA	Water	3510C	
860-61041-B-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Prep Batch: 130701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61059-4	MW-79	Total/NA	Water	3510C	
860-61059-5	MW-39	Total/NA	Water	3510C	
MB 860-130701/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-130701/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-130701/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 131054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-130473/1-A	Method Blank	Total/NA	Water	8270E LL	130473
LCS 860-130473/2-A	Lab Control Sample	Total/NA	Water	8270E LL	130473
LCSD 860-130473/3-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	130473

Eurofins Houston

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

GC/MS Semi VOA

Analysis Batch: 131106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-130701/1-A	Method Blank	Total/NA	Water	8270E LL	130701
LCS 860-130701/2-A	Lab Control Sample	Total/NA	Water	8270E LL	130701
LCSD 860-130701/3-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	130701

Analysis Batch: 131258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-130405/1-A	Method Blank	Total/NA	Water	8270E	130405
LCS 860-130405/2-A	Lab Control Sample	Total/NA	Water	8270E	130405
LCSD 860-130405/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	130405
860-61041-C-6-B MS	Matrix Spike	Total/NA	Water	8270E	130405
860-61041-C-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270E	130405

Analysis Batch: 131328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61059-1	MW-85	Total/NA	Water	8270E	130405
860-61059-2	MW-86	Total/NA	Water	8270E	130405
860-61059-3	MW-87	Total/NA	Water	8270E	130405
860-61059-4	MW-79	Total/NA	Water	8270E	130405
860-61059-5	MW-39	Total/NA	Water	8270E	130405

Analysis Batch: 131436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61059-4	MW-79	Total/NA	Water	8270E LL	130701
860-61059-5	MW-39	Total/NA	Water	8270E LL	130701
860-61041-B-6-B MS	Matrix Spike	Total/NA	Water	8270E LL	130473
860-61041-B-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270E LL	130473

Analysis Batch: 131659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61059-1	MW-85	Total/NA	Water	8270E LL	130473
860-61059-2	MW-86	Total/NA	Water	8270E LL	130473
860-61059-3	MW-87	Total/NA	Water	8270E LL	130473

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-85

Date Collected: 11/07/23 09:21

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61059-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130327	11/09/23 23:47	A1S	EET HOU
Total/NA	Prep	3511			32.7 mL	2 mL	130405	11/10/23 06:40	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131328	11/16/23 12:11	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130473	11/10/23 10:32	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131659	11/18/23 00:26	T1S	EET HOU

Client Sample ID: MW-86

Date Collected: 11/07/23 09:40

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61059-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130327	11/10/23 00:07	A1S	EET HOU
Total/NA	Prep	3511			32.7 mL	2 mL	130405	11/10/23 06:40	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131328	11/16/23 12:41	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130473	11/10/23 10:32	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131659	11/18/23 00:47	T1S	EET HOU

Client Sample ID: MW-87

Date Collected: 11/07/23 10:04

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61059-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130327	11/10/23 00:28	A1S	EET HOU
Total/NA	Prep	3511			33 mL	2 mL	130405	11/10/23 06:40	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131328	11/16/23 13:11	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130473	11/10/23 10:33	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131659	11/18/23 01:08	T1S	EET HOU

Client Sample ID: MW-79

Date Collected: 11/07/23 10:41

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61059-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130327	11/10/23 00:48	A1S	EET HOU
Total/NA	Prep	3511			33.4 mL	2 mL	130405	11/10/23 06:40	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131328	11/16/23 13:41	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130701	11/13/23 09:25	DR	EET HOU
Total/NA	Analysis	8270E LL		5	1 mL	1 mL	131436	11/16/23 21:01	EM	EET HOU

Client Sample ID: MW-39

Date Collected: 11/07/23 11:40

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61059-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130327	11/10/23 01:09	A1S	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Client Sample ID: MW-39

Date Collected: 11/07/23 11:40

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61059-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			33.3 mL	2 mL	130405	11/10/23 06:40	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131328	11/16/23 14:11	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130701	11/13/23 09:26	DR	EET HOU
Total/NA	Analysis	8270E LL		5	1 mL	1 mL	131436	11/16/23 21:21	EM	EET HOU

Client Sample ID: TB-01(110723)

Date Collected: 11/07/23 00:00

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61059-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130327	11/09/23 21:43	A1S	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

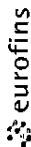
Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61059-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-61059-1	MW-85	Water	11/07/23 09:21	11/09/23 09:56
860-61059-2	MW-86	Water	11/07/23 09:40	11/09/23 09:56
860-61059-3	MW-87	Water	11/07/23 10:04	11/09/23 09:56
860-61059-4	MW-79	Water	11/07/23 10:41	11/09/23 09:56
860-61059-5	MW-39	Water	11/07/23 11:40	11/09/23 09:56
860-61059-6	TB-01(110723)	Water	11/07/23 00:00	11/09/23 09:56

NB Dehydration

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-61059-1

Login Number: 61059

List Number: 1

Creator: Rubio, Yuri

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

ANALYTICAL REPORT

PREPARED FOR

Attn: Timothy Hassett
Ashland LLC
Ashland Hercules Research Center
500 Hercules Rd Bldg 8145
Wilmington, Delaware 19808

Generated 11/29/2023 4:30:42 PM

JOB DESCRIPTION

Hercules Hattiesburg, MS

JOB NUMBER

860-61061-1

Eurofins Houston

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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11/29/2023 4:30:42 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
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(281)748-9025

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Definitions/Glossary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Job ID: 860-61061-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-61061-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/9/2023 9:56 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C

GC/MS VOA

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 860-130402 recovered outside control limits for the following analytes: Dichlorodifluoromethane.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-130402 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS/LCSD) recovery is within acceptance limits.

Method 8260D: The continuing calibration verification (CCV) associated with batch 860-130402 recovered outside acceptance criteria, low biased, for 1,4-Dioxane (-23.8%), Isobutanol (-23.6%) and 2-Propanol (-30.6%). A low level standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270E_LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-130871 and analytical batch 860-131054 recovered outside control limits for the following analyte(s): Pyridine. Pyridine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E_LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-130871 and analytical batch 860-131054 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270E_LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-130871 and analytical batch 860-131054 recovered outside control limits for the following analyte(s): p-Phenylene diamine and 3,3'-Dimethylbenzidine. p-Phenylene diamine and 3,3'-Dimethylbenzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E_LL: The matrix spike/matrix spike duplicate (MS/MSD) for preparation batch 860-130871 and analytical batch 860-131054 exceeded control limits for the following analyte(s): p-Phenylene diamine and 3,3'-Dimethylbenzidine. Note that this analyte is a known poor performer when analyzed using this method.

Method 8270E_QQQ: The surrogate recovery for the method blank and laboratory control sample associated with preparation batch 860-130405 and analytical batch 860-131258 was outside the upper control limit for Nitrobenzene-d5.

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Job ID: 860-61061-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Method 8270E_QQQ: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-130405 and analytical batch 860-131258 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 8270E_QQQ: Surrogate recovery for the following sample was outside control limits. Sample only needs 1,4-Dioxane and 1,4-Dioxane is under surrogate 2-Fluorophenol; therefore, the sample has reported.

Method 8270E_QQQ: Surrogate recovery for the following samples were outside control limits: CM-05 (860-61061-1), CM-04 (860-61061-2), CM-02 (860-61061-4) and CM-01 (860-61061-5). Sample only needs 1,4-Dioxane and 1,4-Dioxane is under surrogate 2-Fluorophenol; therefore, the sample has reported.

Method 8270E_QQQ: The following sample was diluted to bring the concentration of target analytes within the calibration range: CM-05 (860-61061-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-05

Lab Sample ID: 860-61061-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diphenyl ether	0.903	J	8.00	0.364	ug/L	1		8270E LL	Total/NA
o,o',o"-Triethylphosphorothioate	4.05	J	8.00	0.0579	ug/L	1		8270E LL	Total/NA
1,4-Dioxane	51.5		11.8	3.11	ug/L	20		8270E	Total/NA

Client Sample ID: CM-04

Lab Sample ID: 860-61061-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o,o',o"-Triethylphosphorothioate	1.62	J	8.00	0.0579	ug/L	1		8270E LL	Total/NA
1,4-Dioxane	17.6		0.619	0.163	ug/L	1		8270E	Total/NA

Client Sample ID: CM-03

Lab Sample ID: 860-61061-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diphenyl ether	0.613	J	8.00	0.364	ug/L	1		8270E LL	Total/NA
o,o',o"-Triethylphosphorothioate	0.947	J	8.00	0.0579	ug/L	1		8270E LL	Total/NA
1,4-Dioxane	1.07		0.599	0.157	ug/L	1		8270E	Total/NA

Client Sample ID: CM-02

Lab Sample ID: 860-61061-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.193	J	0.606	0.159	ug/L	1		8270E	Total/NA

Client Sample ID: CM-01

Lab Sample ID: 860-61061-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	1.89	J	5.00	1.29	ug/L	1		8260D	Total/NA
1,4-Dioxane	0.768		0.606	0.159	ug/L	1		8270E	Total/NA

Client Sample ID: CM-00

Lab Sample ID: 860-61061-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.569	J	1.00	0.475	ug/L	1		8260D	Total/NA
N-Nitrosodi-n-propylamine	3.81		2.00	0.161	ug/L	1		8270E LL	Total/NA
1,4-Dioxane	0.191	J	0.606	0.159	ug/L	1		8270E	Total/NA

Client Sample ID: TB-04(110823)

Lab Sample ID: 860-61061-7

No Detections.

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-05

Lab Sample ID: 860-61061-1

Date Collected: 11/08/23 07:30

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 13:57	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 13:57	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 13:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 13:57	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 13:57	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 13:57	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 13:57	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 13:57	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 13:57	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 13:57	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 13:57	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 13:57	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 13:57	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 13:57	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 13:57	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 13:57	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 13:57	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 13:57	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 13:57	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 13:57	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 13:57	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 13:57	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 13:57	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 13:57	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 13:57	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 13:57	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 13:57	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 13:57	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 13:57	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 13:57	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 13:57	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 13:57	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 13:57	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 13:57	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 13:57	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 13:57	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 13:57	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 13:57	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 13:57	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 13:57	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 13:57	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 13:57	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 13:57	1
Dichlorodifluoromethane	<0.785	U *1	1.00	0.785	ug/L			11/10/23 13:57	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 13:57	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 13:57	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 13:57	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 13:57	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 13:57	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-05

Lab Sample ID: 860-61061-1

Date Collected: 11/08/23 07:30

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 13:57	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 13:57	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 13:57	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 13:57	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 13:57	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 13:57	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 13:57	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 13:57	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 13:57	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 13:57	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 13:57	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 13:57	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 13:57	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 13:57	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 13:57	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 13:57	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 13:57	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 13:57	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 13:57	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 144		11/10/23 13:57	1
4-Bromofluorobenzene (Surr)	102		74 - 124		11/10/23 13:57	1
Dibromofluoromethane (Surr)	97		75 - 131		11/10/23 13:57	1
Toluene-d8 (Surr)	101		80 - 120		11/10/23 13:57	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/14/23 06:48	11/17/23 21:17	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/14/23 06:48	11/17/23 21:17	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/14/23 06:48	11/17/23 21:17	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/14/23 06:48	11/17/23 21:17	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/14/23 06:48	11/17/23 21:17	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/14/23 06:48	11/17/23 21:17	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/14/23 06:48	11/17/23 21:17	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/14/23 06:48	11/17/23 21:17	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/14/23 06:48	11/17/23 21:17	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/17/23 21:17	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/14/23 06:48	11/17/23 21:17	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/14/23 06:48	11/17/23 21:17	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/14/23 06:48	11/17/23 21:17	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/17/23 21:17	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/14/23 06:48	11/17/23 21:17	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 21:17	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/14/23 06:48	11/17/23 21:17	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/14/23 06:48	11/17/23 21:17	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 21:17	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/17/23 21:17	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/14/23 06:48	11/17/23 21:17	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-05

Lab Sample ID: 860-61061-1

Date Collected: 11/08/23 07:30

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/14/23 06:48	11/17/23 21:17	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/14/23 06:48	11/17/23 21:17	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/14/23 06:48	11/17/23 21:17	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 21:17	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/14/23 06:48	11/17/23 21:17	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/14/23 06:48	11/17/23 21:17	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/17/23 21:17	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/17/23 21:17	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/14/23 06:48	11/17/23 21:17	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/14/23 06:48	11/17/23 21:17	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/14/23 06:48	11/17/23 21:17	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/14/23 06:48	11/17/23 21:17	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/14/23 06:48	11/17/23 21:17	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/14/23 06:48	11/17/23 21:17	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/14/23 06:48	11/17/23 21:17	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/14/23 06:48	11/17/23 21:17	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/14/23 06:48	11/17/23 21:17	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/14/23 06:48	11/17/23 21:17	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/14/23 06:48	11/17/23 21:17	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/17/23 21:17	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/14/23 06:48	11/17/23 21:17	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/14/23 06:48	11/17/23 21:17	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/14/23 06:48	11/17/23 21:17	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/14/23 06:48	11/17/23 21:17	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/17/23 21:17	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/14/23 06:48	11/17/23 21:17	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/14/23 06:48	11/17/23 21:17	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/14/23 06:48	11/17/23 21:17	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/14/23 06:48	11/17/23 21:17	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/17/23 21:17	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/17/23 21:17	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 21:17	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/14/23 06:48	11/17/23 21:17	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/17/23 21:17	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/14/23 06:48	11/17/23 21:17	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/14/23 06:48	11/17/23 21:17	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/14/23 06:48	11/17/23 21:17	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/14/23 06:48	11/17/23 21:17	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/14/23 06:48	11/17/23 21:17	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/17/23 21:17	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 21:17	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/17/23 21:17	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 21:17	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/14/23 06:48	11/17/23 21:17	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/14/23 06:48	11/17/23 21:17	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/14/23 06:48	11/17/23 21:17	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/17/23 21:17	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/14/23 06:48	11/17/23 21:17	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/14/23 06:48	11/17/23 21:17	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-05

Lab Sample ID: 860-61061-1

Date Collected: 11/08/23 07:30

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/14/23 06:48	11/17/23 21:17	1
Diphenyl ether	0.903	J	8.00	0.364	ug/L		11/14/23 06:48	11/17/23 21:17	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/14/23 06:48	11/17/23 21:17	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/17/23 21:17	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/14/23 06:48	11/17/23 21:17	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/14/23 06:48	11/17/23 21:17	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 21:17	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/14/23 06:48	11/17/23 21:17	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 21:17	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/14/23 06:48	11/17/23 21:17	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/14/23 06:48	11/17/23 21:17	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/14/23 06:48	11/17/23 21:17	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/14/23 06:48	11/17/23 21:17	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/14/23 06:48	11/17/23 21:17	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/14/23 06:48	11/17/23 21:17	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/17/23 21:17	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/14/23 06:48	11/17/23 21:17	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/14/23 06:48	11/17/23 21:17	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/14/23 06:48	11/17/23 21:17	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/14/23 06:48	11/17/23 21:17	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/14/23 06:48	11/17/23 21:17	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/14/23 06:48	11/17/23 21:17	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/14/23 06:48	11/17/23 21:17	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 21:17	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/14/23 06:48	11/17/23 21:17	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/14/23 06:48	11/17/23 21:17	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/14/23 06:48	11/17/23 21:17	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/17/23 21:17	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/17/23 21:17	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/17/23 21:17	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/17/23 21:17	1
o,o',o"-Triethylphosphorothioate	4.05	J	8.00	0.0579	ug/L		11/14/23 06:48	11/17/23 21:17	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/14/23 06:48	11/17/23 21:17	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/14/23 06:48	11/17/23 21:17	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/14/23 06:48	11/17/23 21:17	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/14/23 06:48	11/17/23 21:17	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/14/23 06:48	11/17/23 21:17	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/14/23 06:48	11/17/23 21:17	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/14/23 06:48	11/17/23 21:17	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/14/23 06:48	11/17/23 21:17	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/14/23 06:48	11/17/23 21:17	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/14/23 06:48	11/17/23 21:17	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 21:17	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/14/23 06:48	11/17/23 21:17	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/14/23 06:48	11/17/23 21:17	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/14/23 06:48	11/17/23 21:17	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/14/23 06:48	11/17/23 21:17	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/14/23 06:48	11/17/23 21:17	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/17/23 21:17	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-05

Lab Sample ID: 860-61061-1

Date Collected: 11/08/23 07:30

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/17/23 21:17	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/14/23 06:48	11/17/23 21:17	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/14/23 06:48	11/17/23 21:17	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/17/23 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		31 - 132	11/14/23 06:48	11/17/23 21:17	1
2-Fluorobiphenyl	78		40 - 130	11/14/23 06:48	11/17/23 21:17	1
2-Fluorophenol (Surr)	41		21 - 114	11/14/23 06:48	11/17/23 21:17	1
Nitrobenzene-d5 (Surr)	60		37 - 130	11/14/23 06:48	11/17/23 21:17	1
Phenol-d5 (Surr)	28		16 - 117	11/14/23 06:48	11/17/23 21:17	1
p-Terphenyl-d14	117		20 - 141	11/14/23 06:48	11/17/23 21:17	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	51.5		11.8	3.11	ug/L		11/10/23 06:40	11/18/23 07:19	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	124		37 - 133	11/10/23 06:40	11/18/23 07:19	20

Client Sample ID: CM-04

Lab Sample ID: 860-61061-2

Date Collected: 11/08/23 07:54

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 14:17	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 14:17	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 14:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 14:17	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 14:17	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 14:17	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 14:17	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 14:17	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 14:17	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 14:17	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 14:17	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 14:17	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 14:17	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 14:17	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 14:17	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 14:17	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 14:17	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 14:17	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 14:17	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 14:17	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 14:17	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 14:17	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 14:17	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 14:17	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 14:17	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-04

Lab Sample ID: 860-61061-2

Date Collected: 11/08/23 07:54

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 14:17	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 14:17	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 14:17	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 14:17	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 14:17	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 14:17	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 14:17	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 14:17	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 14:17	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 14:17	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 14:17	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 14:17	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 14:17	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 14:17	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 14:17	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 14:17	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 14:17	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 14:17	1
Dichlorodifluoromethane	<0.785	U *1	1.00	0.785	ug/L			11/10/23 14:17	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 14:17	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 14:17	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 14:17	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 14:17	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 14:17	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 14:17	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 14:17	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 14:17	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 14:17	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 14:17	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 14:17	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 14:17	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 14:17	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 14:17	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 14:17	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 14:17	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 14:17	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 14:17	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 14:17	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 14:17	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 14:17	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 14:17	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 14:17	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 14:17	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		11/10/23 14:17	1
4-Bromofluorobenzene (Surr)	97		74 - 124		11/10/23 14:17	1
Dibromofluoromethane (Surr)	99		75 - 131		11/10/23 14:17	1
Toluene-d8 (Surr)	99		80 - 120		11/10/23 14:17	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-04

Lab Sample ID: 860-61061-2

Date Collected: 11/08/23 07:54

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/14/23 06:48	11/17/23 21:38	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/14/23 06:48	11/17/23 21:38	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/14/23 06:48	11/17/23 21:38	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/14/23 06:48	11/17/23 21:38	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/14/23 06:48	11/17/23 21:38	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/14/23 06:48	11/17/23 21:38	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/14/23 06:48	11/17/23 21:38	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/14/23 06:48	11/17/23 21:38	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/14/23 06:48	11/17/23 21:38	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/17/23 21:38	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/14/23 06:48	11/17/23 21:38	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/14/23 06:48	11/17/23 21:38	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/14/23 06:48	11/17/23 21:38	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/17/23 21:38	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/14/23 06:48	11/17/23 21:38	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 21:38	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/14/23 06:48	11/17/23 21:38	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/14/23 06:48	11/17/23 21:38	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 21:38	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/17/23 21:38	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/14/23 06:48	11/17/23 21:38	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/14/23 06:48	11/17/23 21:38	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/14/23 06:48	11/17/23 21:38	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/14/23 06:48	11/17/23 21:38	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 21:38	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/14/23 06:48	11/17/23 21:38	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/14/23 06:48	11/17/23 21:38	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/17/23 21:38	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/17/23 21:38	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/14/23 06:48	11/17/23 21:38	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/14/23 06:48	11/17/23 21:38	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/14/23 06:48	11/17/23 21:38	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/14/23 06:48	11/17/23 21:38	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/14/23 06:48	11/17/23 21:38	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/14/23 06:48	11/17/23 21:38	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/14/23 06:48	11/17/23 21:38	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/14/23 06:48	11/17/23 21:38	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/14/23 06:48	11/17/23 21:38	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/14/23 06:48	11/17/23 21:38	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/14/23 06:48	11/17/23 21:38	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/17/23 21:38	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/14/23 06:48	11/17/23 21:38	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/14/23 06:48	11/17/23 21:38	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/14/23 06:48	11/17/23 21:38	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/14/23 06:48	11/17/23 21:38	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/17/23 21:38	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/14/23 06:48	11/17/23 21:38	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/14/23 06:48	11/17/23 21:38	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/14/23 06:48	11/17/23 21:38	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-04

Lab Sample ID: 860-61061-2

Date Collected: 11/08/23 07:54

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.154	U	2.00	0.154	ug/L		11/14/23 06:48	11/17/23 21:38	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/17/23 21:38	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/17/23 21:38	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 21:38	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/14/23 06:48	11/17/23 21:38	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/17/23 21:38	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/14/23 06:48	11/17/23 21:38	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/14/23 06:48	11/17/23 21:38	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/14/23 06:48	11/17/23 21:38	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/14/23 06:48	11/17/23 21:38	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/14/23 06:48	11/17/23 21:38	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/17/23 21:38	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 21:38	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/17/23 21:38	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 21:38	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/14/23 06:48	11/17/23 21:38	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/14/23 06:48	11/17/23 21:38	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/14/23 06:48	11/17/23 21:38	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/17/23 21:38	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/14/23 06:48	11/17/23 21:38	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/14/23 06:48	11/17/23 21:38	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/14/23 06:48	11/17/23 21:38	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/14/23 06:48	11/17/23 21:38	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/14/23 06:48	11/17/23 21:38	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/17/23 21:38	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/14/23 06:48	11/17/23 21:38	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/14/23 06:48	11/17/23 21:38	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 21:38	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/14/23 06:48	11/17/23 21:38	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 21:38	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/14/23 06:48	11/17/23 21:38	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/14/23 06:48	11/17/23 21:38	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/14/23 06:48	11/17/23 21:38	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/14/23 06:48	11/17/23 21:38	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/14/23 06:48	11/17/23 21:38	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/14/23 06:48	11/17/23 21:38	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/17/23 21:38	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/14/23 06:48	11/17/23 21:38	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/14/23 06:48	11/17/23 21:38	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/14/23 06:48	11/17/23 21:38	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/14/23 06:48	11/17/23 21:38	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/14/23 06:48	11/17/23 21:38	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/14/23 06:48	11/17/23 21:38	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/14/23 06:48	11/17/23 21:38	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 21:38	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/14/23 06:48	11/17/23 21:38	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/14/23 06:48	11/17/23 21:38	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/14/23 06:48	11/17/23 21:38	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/17/23 21:38	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-04

Date Collected: 11/08/23 07:54

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61061-2

Matrix: Water

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/17/23 21:38	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/17/23 21:38	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/17/23 21:38	1
o,o',o"-Triethylphosphorothioate	1.62	J	8.00	0.0579	ug/L		11/14/23 06:48	11/17/23 21:38	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/14/23 06:48	11/17/23 21:38	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/14/23 06:48	11/17/23 21:38	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/14/23 06:48	11/17/23 21:38	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/14/23 06:48	11/17/23 21:38	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/14/23 06:48	11/17/23 21:38	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/14/23 06:48	11/17/23 21:38	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/14/23 06:48	11/17/23 21:38	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/14/23 06:48	11/17/23 21:38	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/14/23 06:48	11/17/23 21:38	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/14/23 06:48	11/17/23 21:38	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 21:38	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/14/23 06:48	11/17/23 21:38	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/14/23 06:48	11/17/23 21:38	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/14/23 06:48	11/17/23 21:38	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/14/23 06:48	11/17/23 21:38	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/14/23 06:48	11/17/23 21:38	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/17/23 21:38	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/17/23 21:38	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/14/23 06:48	11/17/23 21:38	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/14/23 06:48	11/17/23 21:38	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/17/23 21:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		31 - 132	11/14/23 06:48	11/17/23 21:38	1
2-Fluorobiphenyl	60		40 - 130	11/14/23 06:48	11/17/23 21:38	1
2-Fluorophenol (Surr)	38		21 - 114	11/14/23 06:48	11/17/23 21:38	1
Nitrobenzene-d5 (Surr)	55		37 - 130	11/14/23 06:48	11/17/23 21:38	1
Phenol-d5 (Surr)	26		16 - 117	11/14/23 06:48	11/17/23 21:38	1
p-Terphenyl-d14	97		20 - 141	11/14/23 06:48	11/17/23 21:38	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	17.6		0.619	0.163	ug/L		11/10/23 06:40	11/16/23 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	137	S1+	37 - 133	11/10/23 06:40	11/16/23 15:11	1

Client Sample ID: CM-03

Date Collected: 11/08/23 08:19

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61061-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 14:38	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 14:38	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 14:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 14:38	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-03

Lab Sample ID: 860-61061-3

Date Collected: 11/08/23 08:19

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 14:38	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 14:38	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 14:38	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 14:38	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 14:38	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 14:38	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 14:38	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 14:38	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 14:38	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 14:38	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 14:38	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 14:38	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 14:38	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 14:38	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 14:38	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 14:38	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 14:38	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 14:38	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 14:38	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 14:38	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 14:38	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 14:38	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 14:38	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 14:38	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 14:38	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 14:38	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 14:38	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 14:38	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 14:38	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 14:38	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 14:38	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 14:38	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 14:38	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 14:38	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 14:38	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 14:38	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 14:38	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 14:38	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 14:38	1
Dichlorodifluoromethane	<0.785	U *1	1.00	0.785	ug/L			11/10/23 14:38	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 14:38	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 14:38	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 14:38	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 14:38	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 14:38	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 14:38	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 14:38	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 14:38	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 14:38	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-03

Lab Sample ID: 860-61061-3

Date Collected: 11/08/23 08:19

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 14:38	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 14:38	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 14:38	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 14:38	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 14:38	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 14:38	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 14:38	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 14:38	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 14:38	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 14:38	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 14:38	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 14:38	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 14:38	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 14:38	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 14:38	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		11/10/23 14:38	1
4-Bromofluorobenzene (Surr)	99		74 - 124		11/10/23 14:38	1
Dibromofluoromethane (Surr)	99		75 - 131		11/10/23 14:38	1
Toluene-d8 (Surr)	98		80 - 120		11/10/23 14:38	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/14/23 06:48	11/17/23 21:59	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/14/23 06:48	11/17/23 21:59	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/14/23 06:48	11/17/23 21:59	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/14/23 06:48	11/17/23 21:59	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/14/23 06:48	11/17/23 21:59	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/14/23 06:48	11/17/23 21:59	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/14/23 06:48	11/17/23 21:59	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/14/23 06:48	11/17/23 21:59	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/14/23 06:48	11/17/23 21:59	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/17/23 21:59	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/14/23 06:48	11/17/23 21:59	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/14/23 06:48	11/17/23 21:59	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/14/23 06:48	11/17/23 21:59	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/17/23 21:59	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/14/23 06:48	11/17/23 21:59	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 21:59	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/14/23 06:48	11/17/23 21:59	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/14/23 06:48	11/17/23 21:59	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 21:59	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/17/23 21:59	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/14/23 06:48	11/17/23 21:59	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/14/23 06:48	11/17/23 21:59	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/14/23 06:48	11/17/23 21:59	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/14/23 06:48	11/17/23 21:59	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 21:59	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-03

Lab Sample ID: 860-61061-3

Date Collected: 11/08/23 08:19

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/14/23 06:48	11/17/23 21:59	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/14/23 06:48	11/17/23 21:59	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/17/23 21:59	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/17/23 21:59	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/14/23 06:48	11/17/23 21:59	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/14/23 06:48	11/17/23 21:59	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/14/23 06:48	11/17/23 21:59	1
3,3'-Dimethylbenzidine	<0.444	U *-	8.00	0.444	ug/L		11/14/23 06:48	11/17/23 21:59	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/14/23 06:48	11/17/23 21:59	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/14/23 06:48	11/17/23 21:59	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/14/23 06:48	11/17/23 21:59	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/14/23 06:48	11/17/23 21:59	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/14/23 06:48	11/17/23 21:59	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/14/23 06:48	11/17/23 21:59	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/14/23 06:48	11/17/23 21:59	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/17/23 21:59	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/14/23 06:48	11/17/23 21:59	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/14/23 06:48	11/17/23 21:59	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/14/23 06:48	11/17/23 21:59	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/14/23 06:48	11/17/23 21:59	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/17/23 21:59	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/14/23 06:48	11/17/23 21:59	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/14/23 06:48	11/17/23 21:59	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/14/23 06:48	11/17/23 21:59	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/14/23 06:48	11/17/23 21:59	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/17/23 21:59	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/17/23 21:59	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 21:59	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/14/23 06:48	11/17/23 21:59	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/17/23 21:59	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/14/23 06:48	11/17/23 21:59	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/14/23 06:48	11/17/23 21:59	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/14/23 06:48	11/17/23 21:59	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/14/23 06:48	11/17/23 21:59	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/14/23 06:48	11/17/23 21:59	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/17/23 21:59	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 21:59	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/17/23 21:59	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 21:59	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/14/23 06:48	11/17/23 21:59	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/14/23 06:48	11/17/23 21:59	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/14/23 06:48	11/17/23 21:59	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/17/23 21:59	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/14/23 06:48	11/17/23 21:59	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/14/23 06:48	11/17/23 21:59	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/14/23 06:48	11/17/23 21:59	1
Diphenyl ether	0.613	J	8.00	0.364	ug/L		11/14/23 06:48	11/17/23 21:59	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/14/23 06:48	11/17/23 21:59	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/17/23 21:59	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-03

Lab Sample ID: 860-61061-3

Date Collected: 11/08/23 08:19

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/14/23 06:48	11/17/23 21:59	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/14/23 06:48	11/17/23 21:59	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 21:59	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/14/23 06:48	11/17/23 21:59	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 21:59	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/14/23 06:48	11/17/23 21:59	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/14/23 06:48	11/17/23 21:59	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/14/23 06:48	11/17/23 21:59	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/14/23 06:48	11/17/23 21:59	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/14/23 06:48	11/17/23 21:59	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/14/23 06:48	11/17/23 21:59	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/17/23 21:59	1
Methapyriline	<0.181	U	2.00	0.181	ug/L		11/14/23 06:48	11/17/23 21:59	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/14/23 06:48	11/17/23 21:59	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/14/23 06:48	11/17/23 21:59	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/14/23 06:48	11/17/23 21:59	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/14/23 06:48	11/17/23 21:59	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/14/23 06:48	11/17/23 21:59	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/14/23 06:48	11/17/23 21:59	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 21:59	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/14/23 06:48	11/17/23 21:59	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/14/23 06:48	11/17/23 21:59	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/14/23 06:48	11/17/23 21:59	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/17/23 21:59	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/17/23 21:59	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/17/23 21:59	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/17/23 21:59	1
o,o',o"-Triethylphosphorothioate	0.947	J	8.00	0.0579	ug/L		11/14/23 06:48	11/17/23 21:59	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/14/23 06:48	11/17/23 21:59	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/14/23 06:48	11/17/23 21:59	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/14/23 06:48	11/17/23 21:59	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/14/23 06:48	11/17/23 21:59	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/14/23 06:48	11/17/23 21:59	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/14/23 06:48	11/17/23 21:59	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/14/23 06:48	11/17/23 21:59	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/14/23 06:48	11/17/23 21:59	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/14/23 06:48	11/17/23 21:59	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/14/23 06:48	11/17/23 21:59	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 21:59	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/14/23 06:48	11/17/23 21:59	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/14/23 06:48	11/17/23 21:59	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/14/23 06:48	11/17/23 21:59	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/14/23 06:48	11/17/23 21:59	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/14/23 06:48	11/17/23 21:59	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/17/23 21:59	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/17/23 21:59	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/14/23 06:48	11/17/23 21:59	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/14/23 06:48	11/17/23 21:59	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/17/23 21:59	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-03

Date Collected: 11/08/23 08:19

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61061-3

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		31 - 132	11/14/23 06:48	11/17/23 21:59	1
2-Fluorobiphenyl	65		40 - 130	11/14/23 06:48	11/17/23 21:59	1
2-Fluorophenol (Surr)	42		21 - 114	11/14/23 06:48	11/17/23 21:59	1
Nitrobenzene-d5 (Surr)	61		37 - 130	11/14/23 06:48	11/17/23 21:59	1
Phenol-d5 (Surr)	28		16 - 117	11/14/23 06:48	11/17/23 21:59	1
p-Terphenyl-d14	107		20 - 141	11/14/23 06:48	11/17/23 21:59	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.07		0.599	0.157	ug/L		11/10/23 06:40	11/16/23 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	130		37 - 133	11/10/23 06:40	11/16/23 15:41	1

Client Sample ID: CM-02

Date Collected: 11/08/23 08:43

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61061-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 14:58	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 14:58	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 14:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 14:58	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 14:58	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 14:58	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 14:58	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 14:58	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 14:58	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 14:58	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 14:58	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 14:58	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 14:58	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 14:58	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 14:58	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 14:58	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 14:58	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 14:58	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 14:58	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 14:58	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 14:58	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 14:58	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 14:58	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 14:58	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 14:58	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 14:58	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 14:58	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 14:58	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 14:58	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 14:58	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 14:58	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-02

Lab Sample ID: 860-61061-4

Date Collected: 11/08/23 08:43

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 14:58	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 14:58	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 14:58	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 14:58	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 14:58	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 14:58	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 14:58	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 14:58	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 14:58	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 14:58	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 14:58	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 14:58	1
Dichlorodifluoromethane	<0.785	U *1	1.00	0.785	ug/L			11/10/23 14:58	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 14:58	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 14:58	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 14:58	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 14:58	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 14:58	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 14:58	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 14:58	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 14:58	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 14:58	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 14:58	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 14:58	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 14:58	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 14:58	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 14:58	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 14:58	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 14:58	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 14:58	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 14:58	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 14:58	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 14:58	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 14:58	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 14:58	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 14:58	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 14:58	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		11/10/23 14:58	1
4-Bromofluorobenzene (Surr)	96		74 - 124		11/10/23 14:58	1
Dibromofluoromethane (Surr)	98		75 - 131		11/10/23 14:58	1
Toluene-d8 (Surr)	98		80 - 120		11/10/23 14:58	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/14/23 06:48	11/17/23 22:20	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/14/23 06:48	11/17/23 22:20	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/14/23 06:48	11/17/23 22:20	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-02

Lab Sample ID: 860-61061-4

Date Collected: 11/08/23 08:43

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/14/23 06:48	11/17/23 22:20	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/14/23 06:48	11/17/23 22:20	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/14/23 06:48	11/17/23 22:20	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/14/23 06:48	11/17/23 22:20	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/14/23 06:48	11/17/23 22:20	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/14/23 06:48	11/17/23 22:20	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/17/23 22:20	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/14/23 06:48	11/17/23 22:20	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/14/23 06:48	11/17/23 22:20	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/14/23 06:48	11/17/23 22:20	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/17/23 22:20	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/14/23 06:48	11/17/23 22:20	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 22:20	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/14/23 06:48	11/17/23 22:20	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/14/23 06:48	11/17/23 22:20	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 22:20	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/17/23 22:20	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/14/23 06:48	11/17/23 22:20	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/14/23 06:48	11/17/23 22:20	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/14/23 06:48	11/17/23 22:20	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/14/23 06:48	11/17/23 22:20	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 22:20	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/14/23 06:48	11/17/23 22:20	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/14/23 06:48	11/17/23 22:20	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/17/23 22:20	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/17/23 22:20	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/14/23 06:48	11/17/23 22:20	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/14/23 06:48	11/17/23 22:20	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/14/23 06:48	11/17/23 22:20	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/14/23 06:48	11/17/23 22:20	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/14/23 06:48	11/17/23 22:20	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/14/23 06:48	11/17/23 22:20	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/14/23 06:48	11/17/23 22:20	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/14/23 06:48	11/17/23 22:20	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/14/23 06:48	11/17/23 22:20	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/14/23 06:48	11/17/23 22:20	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/14/23 06:48	11/17/23 22:20	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/17/23 22:20	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/14/23 06:48	11/17/23 22:20	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/14/23 06:48	11/17/23 22:20	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/14/23 06:48	11/17/23 22:20	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/14/23 06:48	11/17/23 22:20	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/17/23 22:20	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/14/23 06:48	11/17/23 22:20	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/14/23 06:48	11/17/23 22:20	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/14/23 06:48	11/17/23 22:20	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/14/23 06:48	11/17/23 22:20	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/17/23 22:20	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/17/23 22:20	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-02

Lab Sample ID: 860-61061-4

Date Collected: 11/08/23 08:43

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 22:20	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/14/23 06:48	11/17/23 22:20	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/17/23 22:20	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/14/23 06:48	11/17/23 22:20	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/14/23 06:48	11/17/23 22:20	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/14/23 06:48	11/17/23 22:20	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/14/23 06:48	11/17/23 22:20	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/14/23 06:48	11/17/23 22:20	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/17/23 22:20	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 22:20	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/17/23 22:20	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 22:20	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/14/23 06:48	11/17/23 22:20	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/14/23 06:48	11/17/23 22:20	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/14/23 06:48	11/17/23 22:20	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/17/23 22:20	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/14/23 06:48	11/17/23 22:20	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/14/23 06:48	11/17/23 22:20	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/14/23 06:48	11/17/23 22:20	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/14/23 06:48	11/17/23 22:20	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/14/23 06:48	11/17/23 22:20	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/17/23 22:20	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/14/23 06:48	11/17/23 22:20	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/14/23 06:48	11/17/23 22:20	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 22:20	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/14/23 06:48	11/17/23 22:20	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 22:20	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/14/23 06:48	11/17/23 22:20	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/14/23 06:48	11/17/23 22:20	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/14/23 06:48	11/17/23 22:20	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/14/23 06:48	11/17/23 22:20	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/14/23 06:48	11/17/23 22:20	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/14/23 06:48	11/17/23 22:20	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/17/23 22:20	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/14/23 06:48	11/17/23 22:20	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/14/23 06:48	11/17/23 22:20	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/14/23 06:48	11/17/23 22:20	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/14/23 06:48	11/17/23 22:20	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/14/23 06:48	11/17/23 22:20	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/14/23 06:48	11/17/23 22:20	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/14/23 06:48	11/17/23 22:20	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 22:20	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/14/23 06:48	11/17/23 22:20	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/14/23 06:48	11/17/23 22:20	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/14/23 06:48	11/17/23 22:20	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/17/23 22:20	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/17/23 22:20	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/17/23 22:20	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/17/23 22:20	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-02

Lab Sample ID: 860-61061-4

Date Collected: 11/08/23 08:43

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/14/23 06:48	11/17/23 22:20	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/14/23 06:48	11/17/23 22:20	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/14/23 06:48	11/17/23 22:20	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/14/23 06:48	11/17/23 22:20	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/14/23 06:48	11/17/23 22:20	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/14/23 06:48	11/17/23 22:20	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/14/23 06:48	11/17/23 22:20	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/14/23 06:48	11/17/23 22:20	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/14/23 06:48	11/17/23 22:20	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/14/23 06:48	11/17/23 22:20	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/14/23 06:48	11/17/23 22:20	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 22:20	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/14/23 06:48	11/17/23 22:20	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/14/23 06:48	11/17/23 22:20	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/14/23 06:48	11/17/23 22:20	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/14/23 06:48	11/17/23 22:20	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/14/23 06:48	11/17/23 22:20	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/17/23 22:20	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/17/23 22:20	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/14/23 06:48	11/17/23 22:20	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/14/23 06:48	11/17/23 22:20	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/17/23 22:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		31 - 132	11/14/23 06:48	11/17/23 22:20	1
2-Fluorobiphenyl	59		40 - 130	11/14/23 06:48	11/17/23 22:20	1
2-Fluorophenol (Surr)	40		21 - 114	11/14/23 06:48	11/17/23 22:20	1
Nitrobenzene-d5 (Surr)	58		37 - 130	11/14/23 06:48	11/17/23 22:20	1
Phenol-d5 (Surr)	25		16 - 117	11/14/23 06:48	11/17/23 22:20	1
p-Terphenyl-d14	95		20 - 141	11/14/23 06:48	11/17/23 22:20	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.193	J	0.606	0.159	ug/L		11/10/23 06:40	11/16/23 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	134	S1+	37 - 133	11/10/23 06:40	11/16/23 16:12	1

Client Sample ID: CM-01

Lab Sample ID: 860-61061-5

Date Collected: 11/08/23 09:25

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 15:19	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 15:19	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 15:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 15:19	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 15:19	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 15:19	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 15:19	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-01

Lab Sample ID: 860-61061-5

Date Collected: 11/08/23 09:25

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 15:19	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 15:19	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 15:19	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 15:19	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 15:19	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 15:19	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 15:19	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 15:19	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 15:19	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 15:19	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 15:19	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 15:19	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 15:19	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 15:19	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 15:19	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 15:19	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 15:19	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 15:19	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 15:19	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 15:19	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 15:19	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 15:19	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 15:19	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 15:19	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 15:19	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 15:19	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 15:19	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 15:19	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 15:19	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 15:19	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 15:19	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 15:19	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 15:19	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 15:19	1
Cyclohexane	1.89	J	5.00	1.29	ug/L			11/10/23 15:19	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 15:19	1
Dichlorodifluoromethane	<0.785	U *1	1.00	0.785	ug/L			11/10/23 15:19	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 15:19	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 15:19	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 15:19	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 15:19	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 15:19	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 15:19	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 15:19	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 15:19	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 15:19	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 15:19	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 15:19	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 15:19	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-01

Lab Sample ID: 860-61061-5

Date Collected: 11/08/23 09:25

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 15:19	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 15:19	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 15:19	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 15:19	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 15:19	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 15:19	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 15:19	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 15:19	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 15:19	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 15:19	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 15:19	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 15:19	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		11/10/23 15:19	1
4-Bromofluorobenzene (Surr)	98		74 - 124		11/10/23 15:19	1
Dibromofluoromethane (Surr)	99		75 - 131		11/10/23 15:19	1
Toluene-d8 (Surr)	99		80 - 120		11/10/23 15:19	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/14/23 06:48	11/17/23 22:41	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/14/23 06:48	11/17/23 22:41	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/14/23 06:48	11/17/23 22:41	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/14/23 06:48	11/17/23 22:41	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/14/23 06:48	11/17/23 22:41	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/14/23 06:48	11/17/23 22:41	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/14/23 06:48	11/17/23 22:41	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/14/23 06:48	11/17/23 22:41	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/14/23 06:48	11/17/23 22:41	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/17/23 22:41	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/14/23 06:48	11/17/23 22:41	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/14/23 06:48	11/17/23 22:41	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/14/23 06:48	11/17/23 22:41	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/17/23 22:41	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/14/23 06:48	11/17/23 22:41	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 22:41	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/14/23 06:48	11/17/23 22:41	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/14/23 06:48	11/17/23 22:41	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 22:41	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/17/23 22:41	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/14/23 06:48	11/17/23 22:41	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/14/23 06:48	11/17/23 22:41	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/14/23 06:48	11/17/23 22:41	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/14/23 06:48	11/17/23 22:41	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 22:41	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/14/23 06:48	11/17/23 22:41	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/14/23 06:48	11/17/23 22:41	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/17/23 22:41	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-01

Lab Sample ID: 860-61061-5

Date Collected: 11/08/23 09:25

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/17/23 22:41	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/14/23 06:48	11/17/23 22:41	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/14/23 06:48	11/17/23 22:41	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/14/23 06:48	11/17/23 22:41	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/14/23 06:48	11/17/23 22:41	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/14/23 06:48	11/17/23 22:41	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/14/23 06:48	11/17/23 22:41	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/14/23 06:48	11/17/23 22:41	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/14/23 06:48	11/17/23 22:41	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/14/23 06:48	11/17/23 22:41	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/14/23 06:48	11/17/23 22:41	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/14/23 06:48	11/17/23 22:41	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/17/23 22:41	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/14/23 06:48	11/17/23 22:41	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/14/23 06:48	11/17/23 22:41	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/14/23 06:48	11/17/23 22:41	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/14/23 06:48	11/17/23 22:41	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/17/23 22:41	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/14/23 06:48	11/17/23 22:41	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/14/23 06:48	11/17/23 22:41	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/14/23 06:48	11/17/23 22:41	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/14/23 06:48	11/17/23 22:41	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/17/23 22:41	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/17/23 22:41	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 22:41	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/14/23 06:48	11/17/23 22:41	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/17/23 22:41	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/14/23 06:48	11/17/23 22:41	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/14/23 06:48	11/17/23 22:41	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/14/23 06:48	11/17/23 22:41	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/14/23 06:48	11/17/23 22:41	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/14/23 06:48	11/17/23 22:41	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/17/23 22:41	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 22:41	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/17/23 22:41	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 22:41	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/14/23 06:48	11/17/23 22:41	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/14/23 06:48	11/17/23 22:41	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/14/23 06:48	11/17/23 22:41	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/17/23 22:41	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/14/23 06:48	11/17/23 22:41	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/14/23 06:48	11/17/23 22:41	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/14/23 06:48	11/17/23 22:41	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/14/23 06:48	11/17/23 22:41	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/14/23 06:48	11/17/23 22:41	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/17/23 22:41	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/14/23 06:48	11/17/23 22:41	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/14/23 06:48	11/17/23 22:41	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 22:41	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-01

Lab Sample ID: 860-61061-5

Date Collected: 11/08/23 09:25

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.205	U	2.00	0.205	ug/L		11/14/23 06:48	11/17/23 22:41	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 22:41	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/14/23 06:48	11/17/23 22:41	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/14/23 06:48	11/17/23 22:41	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/14/23 06:48	11/17/23 22:41	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/14/23 06:48	11/17/23 22:41	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/14/23 06:48	11/17/23 22:41	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/14/23 06:48	11/17/23 22:41	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/17/23 22:41	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/14/23 06:48	11/17/23 22:41	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/14/23 06:48	11/17/23 22:41	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/14/23 06:48	11/17/23 22:41	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/14/23 06:48	11/17/23 22:41	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/14/23 06:48	11/17/23 22:41	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/14/23 06:48	11/17/23 22:41	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/14/23 06:48	11/17/23 22:41	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 22:41	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/14/23 06:48	11/17/23 22:41	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/14/23 06:48	11/17/23 22:41	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/14/23 06:48	11/17/23 22:41	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/17/23 22:41	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/17/23 22:41	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/17/23 22:41	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/17/23 22:41	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/14/23 06:48	11/17/23 22:41	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/14/23 06:48	11/17/23 22:41	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/14/23 06:48	11/17/23 22:41	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/14/23 06:48	11/17/23 22:41	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/14/23 06:48	11/17/23 22:41	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/14/23 06:48	11/17/23 22:41	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/14/23 06:48	11/17/23 22:41	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/14/23 06:48	11/17/23 22:41	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/14/23 06:48	11/17/23 22:41	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/14/23 06:48	11/17/23 22:41	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/14/23 06:48	11/17/23 22:41	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 22:41	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/14/23 06:48	11/17/23 22:41	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/14/23 06:48	11/17/23 22:41	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/14/23 06:48	11/17/23 22:41	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/14/23 06:48	11/17/23 22:41	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/14/23 06:48	11/17/23 22:41	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/17/23 22:41	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/17/23 22:41	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/14/23 06:48	11/17/23 22:41	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/14/23 06:48	11/17/23 22:41	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/17/23 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		31 - 132	11/14/23 06:48	11/17/23 22:41	1
2-Fluorobiphenyl	75		40 - 130	11/14/23 06:48	11/17/23 22:41	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-01

Date Collected: 11/08/23 09:25

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61061-5

Matrix: Water

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	49		21 - 114	11/14/23 06:48	11/17/23 22:41	1
Nitrobenzene-d5 (Surr)	72		37 - 130	11/14/23 06:48	11/17/23 22:41	1
Phenol-d5 (Surr)	31		16 - 117	11/14/23 06:48	11/17/23 22:41	1
p-Terphenyl-d14	114		20 - 141	11/14/23 06:48	11/17/23 22:41	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.768		0.606	0.159	ug/L		11/10/23 06:41	11/16/23 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	138	S1+	37 - 133				11/10/23 06:41	11/16/23 16:42	1

Client Sample ID: CM-00

Date Collected: 11/08/23 09:56

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61061-6

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 15:39	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 15:39	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 15:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 15:39	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 15:39	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 15:39	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 15:39	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 15:39	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 15:39	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 15:39	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 15:39	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 15:39	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 15:39	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 15:39	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 15:39	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 15:39	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 15:39	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 15:39	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 15:39	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 15:39	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 15:39	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 15:39	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 15:39	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 15:39	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 15:39	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 15:39	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 15:39	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 15:39	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 15:39	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 15:39	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 15:39	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 15:39	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-00

Lab Sample ID: 860-61061-6

Date Collected: 11/08/23 09:56

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 15:39	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 15:39	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 15:39	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 15:39	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 15:39	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 15:39	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 15:39	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 15:39	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 15:39	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 15:39	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 15:39	1
Dichlorodifluoromethane	<0.785	U *1	1.00	0.785	ug/L			11/10/23 15:39	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 15:39	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 15:39	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 15:39	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 15:39	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 15:39	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 15:39	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 15:39	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 15:39	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 15:39	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 15:39	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 15:39	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 15:39	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 15:39	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 15:39	1
Toluene	0.569	J	1.00	0.475	ug/L			11/10/23 15:39	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 15:39	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 15:39	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 15:39	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 15:39	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 15:39	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 15:39	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 15:39	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 15:39	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 15:39	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		11/10/23 15:39	1
4-Bromofluorobenzene (Surr)	98		74 - 124		11/10/23 15:39	1
Dibromofluoromethane (Surr)	99		75 - 131		11/10/23 15:39	1
Toluene-d8 (Surr)	99		80 - 120		11/10/23 15:39	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/14/23 06:48	11/17/23 23:02	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/14/23 06:48	11/17/23 23:02	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/14/23 06:48	11/17/23 23:02	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/14/23 06:48	11/17/23 23:02	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-00

Lab Sample ID: 860-61061-6

Date Collected: 11/08/23 09:56

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/14/23 06:48	11/17/23 23:02	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/14/23 06:48	11/17/23 23:02	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/14/23 06:48	11/17/23 23:02	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/14/23 06:48	11/17/23 23:02	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/14/23 06:48	11/17/23 23:02	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/17/23 23:02	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/14/23 06:48	11/17/23 23:02	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/14/23 06:48	11/17/23 23:02	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/14/23 06:48	11/17/23 23:02	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/17/23 23:02	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/14/23 06:48	11/17/23 23:02	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 23:02	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/14/23 06:48	11/17/23 23:02	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/14/23 06:48	11/17/23 23:02	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 23:02	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/17/23 23:02	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/14/23 06:48	11/17/23 23:02	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/14/23 06:48	11/17/23 23:02	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/14/23 06:48	11/17/23 23:02	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/14/23 06:48	11/17/23 23:02	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 23:02	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/14/23 06:48	11/17/23 23:02	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/14/23 06:48	11/17/23 23:02	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/17/23 23:02	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/17/23 23:02	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/14/23 06:48	11/17/23 23:02	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/14/23 06:48	11/17/23 23:02	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/14/23 06:48	11/17/23 23:02	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/14/23 06:48	11/17/23 23:02	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/14/23 06:48	11/17/23 23:02	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/14/23 06:48	11/17/23 23:02	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/14/23 06:48	11/17/23 23:02	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/14/23 06:48	11/17/23 23:02	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/14/23 06:48	11/17/23 23:02	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/14/23 06:48	11/17/23 23:02	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/14/23 06:48	11/17/23 23:02	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/17/23 23:02	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/14/23 06:48	11/17/23 23:02	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/14/23 06:48	11/17/23 23:02	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/14/23 06:48	11/17/23 23:02	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/14/23 06:48	11/17/23 23:02	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/17/23 23:02	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/14/23 06:48	11/17/23 23:02	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/14/23 06:48	11/17/23 23:02	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/14/23 06:48	11/17/23 23:02	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/14/23 06:48	11/17/23 23:02	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/17/23 23:02	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/17/23 23:02	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 23:02	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-00

Lab Sample ID: 860-61061-6

Date Collected: 11/08/23 09:56

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/14/23 06:48	11/17/23 23:02	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/17/23 23:02	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/14/23 06:48	11/17/23 23:02	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/14/23 06:48	11/17/23 23:02	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/14/23 06:48	11/17/23 23:02	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/14/23 06:48	11/17/23 23:02	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/14/23 06:48	11/17/23 23:02	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/17/23 23:02	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 23:02	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/17/23 23:02	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 23:02	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/14/23 06:48	11/17/23 23:02	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/14/23 06:48	11/17/23 23:02	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/14/23 06:48	11/17/23 23:02	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/17/23 23:02	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/14/23 06:48	11/17/23 23:02	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/14/23 06:48	11/17/23 23:02	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/14/23 06:48	11/17/23 23:02	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/14/23 06:48	11/17/23 23:02	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/14/23 06:48	11/17/23 23:02	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/17/23 23:02	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/14/23 06:48	11/17/23 23:02	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/14/23 06:48	11/17/23 23:02	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/17/23 23:02	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/14/23 06:48	11/17/23 23:02	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 23:02	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/14/23 06:48	11/17/23 23:02	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/14/23 06:48	11/17/23 23:02	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/14/23 06:48	11/17/23 23:02	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/14/23 06:48	11/17/23 23:02	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/14/23 06:48	11/17/23 23:02	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/14/23 06:48	11/17/23 23:02	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/17/23 23:02	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/14/23 06:48	11/17/23 23:02	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/14/23 06:48	11/17/23 23:02	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/14/23 06:48	11/17/23 23:02	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/14/23 06:48	11/17/23 23:02	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/14/23 06:48	11/17/23 23:02	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/14/23 06:48	11/17/23 23:02	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/14/23 06:48	11/17/23 23:02	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/17/23 23:02	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/14/23 06:48	11/17/23 23:02	1
N-Nitrosodi-n-propylamine	3.81		2.00	0.161	ug/L		11/14/23 06:48	11/17/23 23:02	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/14/23 06:48	11/17/23 23:02	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/17/23 23:02	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/17/23 23:02	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/17/23 23:02	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/17/23 23:02	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/14/23 06:48	11/17/23 23:02	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-00

Lab Sample ID: 860-61061-6

Date Collected: 11/08/23 09:56

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/14/23 06:48	11/17/23 23:02	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/14/23 06:48	11/17/23 23:02	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/14/23 06:48	11/17/23 23:02	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/14/23 06:48	11/17/23 23:02	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/14/23 06:48	11/17/23 23:02	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/14/23 06:48	11/17/23 23:02	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/14/23 06:48	11/17/23 23:02	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/14/23 06:48	11/17/23 23:02	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/14/23 06:48	11/17/23 23:02	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/14/23 06:48	11/17/23 23:02	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/17/23 23:02	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/14/23 06:48	11/17/23 23:02	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/14/23 06:48	11/17/23 23:02	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/14/23 06:48	11/17/23 23:02	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/14/23 06:48	11/17/23 23:02	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/14/23 06:48	11/17/23 23:02	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/17/23 23:02	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/17/23 23:02	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/14/23 06:48	11/17/23 23:02	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/14/23 06:48	11/17/23 23:02	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/17/23 23:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		31 - 132	11/14/23 06:48	11/17/23 23:02	1
2-Fluorobiphenyl	67		40 - 130	11/14/23 06:48	11/17/23 23:02	1
2-Fluorophenol (Surr)	39		21 - 114	11/14/23 06:48	11/17/23 23:02	1
Nitrobenzene-d5 (Surr)	63		37 - 130	11/14/23 06:48	11/17/23 23:02	1
Phenol-d5 (Surr)	25		16 - 117	11/14/23 06:48	11/17/23 23:02	1
p-Terphenyl-d14	99		20 - 141	11/14/23 06:48	11/17/23 23:02	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.191	J	0.606	0.159	ug/L		11/10/23 06:41	11/16/23 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	126		37 - 133	11/10/23 06:41	11/16/23 17:12	1

Client Sample ID: TB-04(110823)

Lab Sample ID: 860-61061-7

Date Collected: 11/08/23 00:00

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 12:55	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 12:55	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 12:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 12:55	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 12:55	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 12:55	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 12:55	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 12:55	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: TB-04(110823)

Lab Sample ID: 860-61061-7

Date Collected: 11/08/23 00:00

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 12:55	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 12:55	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 12:55	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 12:55	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 12:55	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 12:55	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 12:55	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 12:55	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 12:55	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 12:55	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 12:55	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 12:55	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 12:55	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 12:55	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 12:55	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 12:55	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 12:55	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 12:55	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 12:55	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 12:55	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 12:55	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 12:55	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 12:55	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 12:55	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 12:55	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 12:55	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 12:55	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 12:55	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 12:55	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 12:55	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 12:55	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 12:55	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 12:55	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 12:55	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 12:55	1
Dichlorodifluoromethane	<0.785	U *1	1.00	0.785	ug/L			11/10/23 12:55	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 12:55	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 12:55	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 12:55	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 12:55	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 12:55	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 12:55	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 12:55	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 12:55	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 12:55	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 12:55	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 12:55	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 12:55	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 12:55	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: TB-04(110823)

Lab Sample ID: 860-61061-7

Date Collected: 11/08/23 00:00

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 12:55	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 12:55	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 12:55	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 12:55	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 12:55	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 12:55	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 12:55	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 12:55	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 12:55	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 12:55	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 12:55	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		11/10/23 12:55	1
4-Bromofluorobenzene (Surr)	99		74 - 124		11/10/23 12:55	1
Dibromofluoromethane (Surr)	98		75 - 131		11/10/23 12:55	1
Toluene-d8 (Surr)	100		80 - 120		11/10/23 12:55	1

Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
400-246085-B-4 MS	Matrix Spike	93	98	99	98
400-246085-B-4 MSD	Matrix Spike Duplicate	93	99	98	99
860-61061-1	CM-05	96	102	97	101
860-61061-2	CM-04	97	97	99	99
860-61061-3	CM-03	97	99	99	98
860-61061-4	CM-02	97	96	98	98
860-61061-5	CM-01	97	98	99	99
860-61061-6	CM-00	97	98	99	99
860-61061-7	TB-04(110823)	97	99	98	100
LCS 860-130402/3	Lab Control Sample	94	96	98	97
LCSD 860-130402/7	Lab Control Sample Dup	91	97	99	97
MB 860-130402/11	Method Blank	96	97	98	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	2FP (19-120)	FBP (43-130)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-61041-C-6-B MS	Matrix Spike	150 S1+	81	98	125	53	87
860-61041-C-6-C MSD	Matrix Spike Duplicate	170 S1+	81	99	138 S1+	48	98
860-61061-1	CM-05				124		
860-61061-2	CM-04				137 S1+		
860-61061-3	CM-03				130		
860-61061-4	CM-02				134 S1+		
860-61061-5	CM-01				138 S1+		
860-61061-6	CM-00				126		
LCS 860-130405/2-A	Lab Control Sample	106	61	122	144 S1+	48	93
LCSD 860-130405/3-A	Lab Control Sample Dup	110	59	109	127	45	83
MB 860-130405/1-A	Method Blank	99	48	124	137 S1+	35	102

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
2FP = 2-Fluorophenol (Surr)
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (31-132)	FBP (40-130)	2FP (21-114)	NBZ (37-130)	PHL (16-117)	TPHd14 (20-141)
860-61028-H-17-B MS	Matrix Spike	61	58	43	60	42	71
860-61028-H-17-C MSD	Matrix Spike Duplicate	68	57	47	62	41	103
860-61061-1	CM-05	100	78	41	60	28	117
860-61061-2	CM-04	77	60	38	55	26	97
860-61061-3	CM-03	80	65	42	61	28	107
860-61061-4	CM-02	63	59	40	58	25	95
860-61061-5	CM-01	84	75	49	72	31	114
860-61061-6	CM-00	68	67	39	63	25	99
LCS 860-130871/2-A	Lab Control Sample	59	55	45	60	34	98
LCSD 860-130871/3-A	Lab Control Sample Dup	65	58	42	62	34	92
MB 860-130871/1-A	Method Blank	42	53	37	56	29	97

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-130402/11

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 12:14	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 12:14	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 12:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 12:14	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 12:14	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 12:14	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 12:14	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 12:14	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 12:14	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 12:14	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 12:14	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 12:14	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 12:14	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 12:14	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 12:14	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 12:14	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 12:14	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 12:14	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 12:14	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 12:14	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 12:14	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 12:14	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 12:14	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 12:14	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 12:14	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 12:14	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 12:14	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 12:14	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 12:14	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 12:14	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 12:14	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 12:14	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 12:14	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 12:14	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 12:14	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 12:14	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 12:14	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 12:14	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 12:14	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 12:14	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 12:14	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 12:14	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 12:14	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/10/23 12:14	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 12:14	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 12:14	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 12:14	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 12:14	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130402/11

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 12:14	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 12:14	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 12:14	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 12:14	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 12:14	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 12:14	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 12:14	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 12:14	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 12:14	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 12:14	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 12:14	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 12:14	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 12:14	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 12:14	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 12:14	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 12:14	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 12:14	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 12:14	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 12:14	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 12:14	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 12:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 144		11/10/23 12:14	1
4-Bromofluorobenzene (Surr)	97		74 - 124		11/10/23 12:14	1
Dibromofluoromethane (Surr)	98		75 - 131		11/10/23 12:14	1
Toluene-d8 (Surr)	99		80 - 120		11/10/23 12:14	1

Lab Sample ID: LCS 860-130402/3

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	48.96		ug/L		98	72 - 125
1,1,1-Trichloroethane	50.0	45.59		ug/L		91	70 - 130
1,1,2,2-Tetrachloroethane	50.0	46.77		ug/L		94	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.89		ug/L		106	60 - 140
1,1,2-Trichloroethane	50.0	48.11		ug/L		96	70 - 130
1,1-Dichloroethane	50.0	45.90		ug/L		92	70 - 130
1,1-Dichloroethene	50.0	44.83		ug/L		90	50 - 150
1,2,3-Trichloropropane	50.0	44.38		ug/L		89	75 - 125
1,2,4-Trimethylbenzene	50.0	47.20		ug/L		94	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	48.66		ug/L		97	59 - 125
1,2-Dibromoethane	50.0	49.16		ug/L		98	73 - 125
1,2-Dichloroethane	50.0	47.35		ug/L		95	72 - 130
1,2-Dichloropropane	50.0	47.96		ug/L		96	74 - 125
1,3,5-Trimethylbenzene	50.0	47.67		ug/L		95	60 - 140
1,3-Butadiene	50.0	41.02		ug/L		82	60 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130402/3

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	45.93		ug/L		92	70 - 130
2-Butanone (MEK)	250	212.4		ug/L		85	60 - 140
2-Hexanone (MBK)	250	213.5		ug/L		85	60 - 140
2-Propanol	500	354.2		ug/L		71	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	40.94		ug/L		82	70 - 130
4-Methyl-2-pentanone	250	217.2		ug/L		87	60 - 140
Acetone	250	211.2		ug/L		84	60 - 140
Acetonitrile	500	412.2		ug/L		82	60 - 140
Acrolein	250	210.9		ug/L		84	60 - 140
Acrylonitrile	500	429.3		ug/L		86	60 - 140
alpha-Chlorotoluene	50.0	49.39		ug/L		99	75 - 125
Benzene	50.0	47.62		ug/L		95	75 - 125
Bromodichloromethane	50.0	47.70		ug/L		95	75 - 125
Bromoform	50.0	48.73		ug/L		97	70 - 130
Bromomethane	50.0	45.38		ug/L		91	60 - 140
Carbon disulfide	50.0	42.77		ug/L		86	60 - 140
Carbon tetrachloride	50.0	45.10		ug/L		90	70 - 130
Chlorobenzene	50.0	48.64		ug/L		97	65 - 135
Chlorodibromomethane	50.0	48.32		ug/L		97	73 - 125
Chloroethane	50.0	43.32		ug/L		87	60 - 140
Chloroform	50.0	46.68		ug/L		93	70 - 121
Chloromethane	50.0	36.40		ug/L		73	60 - 140
Chloroprene	50.0	43.71		ug/L		87	70 - 130
cis-1,2-Dichloroethene	50.0	45.94		ug/L		92	75 - 125
cis-1,3-Dichloropropene	50.0	47.83		ug/L		96	74 - 125
Cumene (isopropylbenzene)	50.0	48.21		ug/L		96	75 - 125
Cyclohexane	50.0	45.48		ug/L		91	70 - 130
Dibromomethane	50.0	48.99		ug/L		98	69 - 127
Dichlorodifluoromethane	50.0	32.98		ug/L		66	50 - 150
Ethyl methacrylate	50.0	46.41		ug/L		93	70 - 130
Ethylbenzene	50.0	47.63		ug/L		95	75 - 125
Hexane	50.0	48.36		ug/L		97	72 - 125
Iodomethane	50.0	53.52		ug/L		107	75 - 125
Isobutanol	1240	1010		ug/L		81	60 - 140
Methacrylonitrile	500	455.9		ug/L		91	70 - 130
Methyl methacrylate	100	93.62		ug/L		94	70 - 130
Methyl tert-butyl ether	50.0	44.28		ug/L		89	65 - 135
Methylene Chloride	50.0	46.99		ug/L		94	71 - 125
Propionitrile	500	434.7		ug/L		87	70 - 130
Propylbenzene	50.0	48.15		ug/L		96	75 - 125
Styrene	50.0	48.80		ug/L		98	75 - 125
Tetrachloroethene	50.0	49.83		ug/L		100	71 - 125
Tetrahydrofuran	100	90.02		ug/L		90	75 - 125
Toluene	50.0	47.64		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	48.11		ug/L		96	75 - 125
trans-1,3-Dichloropropene	50.0	47.20		ug/L		94	66 - 125
trans-1,4-Dichloro-2-butene	50.0	44.84		ug/L		90	70 - 130
Trichloroethene	50.0	50.88		ug/L		102	75 - 135
Trichlorofluoromethane	50.0	49.04		ug/L		98	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130402/3

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	214.6		ug/L		86	60 - 140
Vinyl chloride	50.0	41.64		ug/L		83	60 - 140
Xylenes, Total	100	94.48		ug/L		94	75 - 125
o-Xylene	50.0	47.00		ug/L		94	75 - 125
m,p-Xylenes	50.0	47.48		ug/L		95	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		63 - 144
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: LCSD 860-130402/7

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	50.17		ug/L		100	72 - 125	2	25
1,1,1-Trichloroethane	50.0	48.58		ug/L		97	70 - 130	6	25
1,1,2,2-Tetrachloroethane	50.0	48.46		ug/L		97	74 - 125	4	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.80		ug/L		118	60 - 140	11	25
1,1,2-Trichloroethane	50.0	49.16		ug/L		98	70 - 130	2	25
1,1-Dichloroethane	50.0	48.86		ug/L		98	70 - 130	6	25
1,1-Dichloroethene	50.0	49.52		ug/L		99	50 - 150	10	25
1,2,3-Trichloropropane	50.0	46.56		ug/L		93	75 - 125	5	25
1,2,4-Trimethylbenzene	50.0	48.79		ug/L		98	75 - 125	3	25
1,2-Dibromo-3-Chloropropane	50.0	52.27		ug/L		105	59 - 125	7	25
1,2-Dibromoethane	50.0	50.37		ug/L		101	73 - 125	2	25
1,2-Dichloroethane	50.0	48.32		ug/L		97	72 - 130	2	25
1,2-Dichloropropane	50.0	48.27		ug/L		97	74 - 125	1	25
1,3,5-Trimethylbenzene	50.0	49.10		ug/L		98	60 - 140	3	25
1,3-Butadiene	50.0	48.98		ug/L		98	60 - 150	18	25
2,2,4-Trimethylpentane	50.0	50.05		ug/L		100	70 - 130	9	25
2-Butanone (MEK)	250	221.7		ug/L		89	60 - 140	4	25
2-Hexanone (MBK)	250	218.1		ug/L		87	60 - 140	2	25
2-Propanol	500	414.8		ug/L		83	70 - 120	16	25
3-Chloropropene (Allyl Chloride)	50.0	43.89		ug/L		88	70 - 130	7	25
4-Methyl-2-pentanone	250	222.0		ug/L		89	60 - 140	2	25
Acetone	250	215.1		ug/L		86	60 - 140	2	25
Acetonitrile	500	440.5		ug/L		88	60 - 140	7	25
Acrolein	250	224.8		ug/L		90	60 - 140	6	25
Acrylonitrile	500	456.5		ug/L		91	60 - 140	6	25
alpha-Chlorotoluene	50.0	50.84		ug/L		102	75 - 125	3	25
Benzene	50.0	49.24		ug/L		98	75 - 125	3	25
Bromodichloromethane	50.0	48.68		ug/L		97	75 - 125	2	25
Bromoform	50.0	50.16		ug/L		100	70 - 130	3	25
Bromomethane	50.0	52.68		ug/L		105	60 - 140	15	25
Carbon disulfide	50.0	49.05		ug/L		98	60 - 140	14	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130402/7

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	47.56		ug/L		95	70 - 130	5	25
Chlorobenzene	50.0	49.94		ug/L		100	65 - 135	3	25
Chlorodibromomethane	50.0	49.52		ug/L		99	73 - 125	2	25
Chloroethane	50.0	47.06		ug/L		94	60 - 140	8	25
Chloroform	50.0	49.30		ug/L		99	70 - 121	5	25
Chloromethane	50.0	46.36		ug/L		93	60 - 140	24	25
Chloroprene	50.0	47.24		ug/L		94	70 - 130	8	25
cis-1,2-Dichloroethene	50.0	48.96		ug/L		98	75 - 125	6	25
cis-1,3-Dichloropropene	50.0	49.56		ug/L		99	74 - 125	4	25
Cumene (isopropylbenzene)	50.0	48.95		ug/L		98	75 - 125	2	25
Cyclohexane	50.0	49.33		ug/L		99	70 - 130	8	25
Dibromomethane	50.0	50.64		ug/L		101	69 - 127	3	25
Dichlorodifluoromethane	50.0	55.04	*1	ug/L		110	50 - 150	50	25
Ethyl methacrylate	50.0	47.58		ug/L		95	70 - 130	2	25
Ethylbenzene	50.0	48.84		ug/L		98	75 - 125	3	25
Hexane	50.0	53.62		ug/L		107	72 - 125	10	25
Iodomethane	50.0	60.08		ug/L		120	75 - 125	12	25
Isobutanol	1240	1085		ug/L		88	60 - 140	7	25
Methacrylonitrile	500	481.2		ug/L		96	70 - 130	5	25
Methyl methacrylate	100	96.19		ug/L		96	70 - 130	3	25
Methyl tert-butyl ether	50.0	47.02		ug/L		94	65 - 135	6	25
Methylene Chloride	50.0	51.11		ug/L		102	71 - 125	8	25
Propionitrile	500	467.2		ug/L		93	70 - 130	7	25
Propylbenzene	50.0	48.70		ug/L		97	75 - 125	1	25
Styrene	50.0	49.65		ug/L		99	75 - 125	2	25
Tetrachloroethene	50.0	51.15		ug/L		102	71 - 125	3	25
Tetrahydrofuran	100	96.40		ug/L		96	75 - 125	7	25
Toluene	50.0	48.95		ug/L		98	70 - 130	3	25
trans-1,2-Dichloroethene	50.0	51.70		ug/L		103	75 - 125	7	25
trans-1,3-Dichloropropene	50.0	48.75		ug/L		97	66 - 125	3	25
trans-1,4-Dichloro-2-butene	50.0	47.14		ug/L		94	70 - 130	5	25
Trichloroethene	50.0	52.03		ug/L		104	75 - 135	2	25
Trichlorofluoromethane	50.0	55.18		ug/L		110	60 - 140	12	25
Vinyl acetate	250	226.6		ug/L		91	60 - 140	5	25
Vinyl chloride	50.0	50.69		ug/L		101	60 - 140	20	25
Xylenes, Total	100	97.01		ug/L		97	75 - 125	3	25
o-Xylene	50.0	48.31		ug/L		97	75 - 125	3	25
m,p-Xylenes	50.0	48.70		ug/L		97	75 - 125	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		63 - 144
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	97		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-246085-B-4 MS

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	49.00		ug/L		98	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	43.42		ug/L		87	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	50.15		ug/L		100	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	44.92		ug/L		90	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	48.53		ug/L		97	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	45.47		ug/L		91	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	40.63		ug/L		81	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	48.16		ug/L		96	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	48.53		ug/L		97	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	53.91		ug/L		108	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	49.86		ug/L		100	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	47.70		ug/L		95	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	48.01		ug/L		96	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	48.13		ug/L		96	70 - 125
1,3-Butadiene	<0.568	U	50.0	35.93		ug/L		72	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	38.72		ug/L		77	70 - 130
2-Butanone (MEK)	<8.28	U	250	220.2		ug/L		88	60 - 140
2-Hexanone (MBK)	<7.45	U	250	218.0		ug/L		87	60 - 140
2-Propanol	<5.23	U	500	385.5		ug/L		77	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	41.17		ug/L		82	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	222.5		ug/L		89	60 - 140
Acetone	<3.07	U	250	204.0		ug/L		82	60 - 140
Acetonitrile	<14.6	U	500	419.0		ug/L		84	60 - 140
Acrolein	<11.1	U	250	210.3		ug/L		84	50 - 150
Acrylonitrile	<14.3	U	500	437.7		ug/L		88	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	52.14		ug/L		104	70 - 130
Benzene	0.464	J	50.0	46.93		ug/L		93	66 - 142
Bromodichloromethane	<0.552	U	50.0	47.71		ug/L		95	75 - 125
Bromoform	<0.633	U	50.0	49.77		ug/L		100	75 - 125
Bromomethane	<1.42	U	50.0	43.89		ug/L		88	60 - 140
Carbon disulfide	<1.65	U	50.0	41.49		ug/L		83	60 - 140
Carbon tetrachloride	<0.896	U	50.0	41.25		ug/L		83	62 - 125
Chlorobenzene	<0.455	U	50.0	48.63		ug/L		97	60 - 133
Chlorodibromomethane	<0.547	U	50.0	49.35		ug/L		99	73 - 125
Chloroethane	<1.98	U	50.0	40.42		ug/L		81	60 - 140
Chloroform	<0.464	U	50.0	46.64		ug/L		93	70 - 130
Chloromethane	<2.04	U	50.0	35.24		ug/L		70	60 - 140
Chloroprene	<0.598	U	50.0	41.15		ug/L		82	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	45.74		ug/L		91	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	48.76		ug/L		98	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	46.22		ug/L		92	75 - 125
Cyclohexane	<1.29	U	50.0	40.05		ug/L		80	70 - 130
Dibromomethane	<0.357	U	50.0	50.34		ug/L		101	69 - 127
Dichlorodifluoromethane	<0.785	U F1 *1	50.0	27.09	F1	ug/L		54	70 - 130
Ethyl methacrylate	<1.12	U	50.0	47.72		ug/L		95	70 - 130
Ethylbenzene	<0.385	U	50.0	46.52		ug/L		93	75 - 125
Hexane	<0.517	U	50.0	38.52		ug/L		77	72 - 125
Iodomethane	<6.52	U	50.0	53.70		ug/L		107	75 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-246085-B-4 MS

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analysis Date: 100402

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Isobutanol	<17.1	U	1240	1063		ug/L		86	60 - 140
Methacrylonitrile	<2.72	U	500	463.9		ug/L		93	70 - 130
Methyl methacrylate	<2.25	U	100	94.87		ug/L		95	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	46.50		ug/L		93	65 - 135
Methylene Chloride	<1.73	U	50.0	45.32		ug/L		91	75 - 125
Propionitrile	<3.34	U	500	449.4		ug/L		90	70 - 130
Propylbenzene	<0.429	U	50.0	46.62		ug/L		93	75 - 125
Styrene	<0.619	U	50.0	48.44		ug/L		97	75 - 125
Tetrachloroethene	<0.655	U	50.0	46.96		ug/L		94	71 - 125
Tetrahydrofuran	<1.83	U	100	92.37		ug/L		92	75 - 125
Toluene	<0.475	U	50.0	46.57		ug/L		93	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	46.06		ug/L		92	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	48.14		ug/L		96	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	48.01		ug/L		96	70 - 130
Trichloroethene	<0.791	U	50.0	48.07		ug/L		96	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	42.95		ug/L		86	60 - 140
Vinyl acetate	<2.14	U	250	221.1		ug/L		88	60 - 140
Vinyl chloride	<0.428	U	50.0	37.24		ug/L		74	60 - 140
Xylenes, Total	<1.24	U	100	92.77		ug/L		93	75 - 125
o-Xylene	<0.502	U	50.0	46.49		ug/L		93	75 - 125
m,p-Xylenes	<1.24	U	50.0	46.28		ug/L		93	75 - 125
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	93		63 - 144						
4-Bromofluorobenzene (Surr)	98		74 - 124						
Dibromofluoromethane (Surr)	99		75 - 131						
Toluene-d8 (Surr)	98		80 - 120						

Lab Sample ID: 400-246085-B-4 MSD

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	46.76		ug/L		94	72 - 125	5	25
1,1,1-Trichloroethane	<0.585	U	50.0	41.13		ug/L		82	75 - 125	5	25
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	47.48		ug/L		95	74 - 125	5	25
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	41.69		ug/L		83	60 - 140	7	25
1,1,2-Trichloroethane	<0.411	U	50.0	46.35		ug/L		93	75 - 127	5	25
1,1-Dichloroethane	<0.635	U	50.0	42.52		ug/L		85	72 - 125	7	25
1,1-Dichloroethene	<0.738	U	50.0	39.46		ug/L		79	59 - 172	3	25
1,2,3-Trichloropropane	<0.470	U	50.0	47.60		ug/L		95	75 - 125	1	25
1,2,4-Trimethylbenzene	<0.417	U	50.0	46.34		ug/L		93	75 - 125	5	25
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	50.30		ug/L		101	59 - 125	7	25
1,2-Dibromoethane	<0.999	U	50.0	47.40		ug/L		95	73 - 125	5	25
1,2-Dichloroethane	<0.372	U	50.0	44.79		ug/L		90	68 - 127	6	25
1,2-Dichloropropane	<0.556	U	50.0	44.96		ug/L		90	74 - 125	7	25
1,3,5-Trimethylbenzene	<0.411	U	50.0	46.27		ug/L		93	70 - 125	4	25
1,3-Butadiene	<0.568	U	50.0	35.09		ug/L		70	70 - 150	2	25

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-246085-B-4 MSD

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,2,4-Trimethylpentane	<0.500	U	50.0	35.82		ug/L		72	70 - 130	8	25
2-Butanone (MEK)	<8.28	U	250	204.8		ug/L		82	60 - 140	7	25
2-Hexanone (MBK)	<7.45	U	250	203.8		ug/L		82	60 - 140	7	25
2-Propanol	<5.23	U	500	367.3		ug/L		73	70 - 120	5	25
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	38.47		ug/L		77	70 - 130	7	25
4-Methyl-2-pentanone	<7.49	U	250	206.4		ug/L		83	60 - 140	8	25
Acetone	<3.07	U	250	188.7		ug/L		75	60 - 140	8	25
Acetonitrile	<14.6	U	500	384.1		ug/L		77	60 - 140	9	25
Acrolein	<11.1	U	250	201.1		ug/L		80	50 - 150	4	25
Acrylonitrile	<14.3	U	500	406.7		ug/L		81	50 - 150	7	25
alpha-Chlorotoluene	<2.26	U	50.0	49.12		ug/L		98	70 - 130	6	25
Benzene	0.464	J	50.0	44.52		ug/L		88	66 - 142	5	25
Bromodichloromethane	<0.552	U	50.0	44.41		ug/L		89	75 - 125	7	25
Bromoform	<0.633	U	50.0	46.75		ug/L		94	75 - 125	6	25
Bromomethane	<1.42	U	50.0	42.49		ug/L		85	60 - 140	3	25
Carbon disulfide	<1.65	U	50.0	38.57		ug/L		77	60 - 140	7	25
Carbon tetrachloride	<0.896	U	50.0	39.78		ug/L		80	62 - 125	4	25
Chlorobenzene	<0.455	U	50.0	46.16		ug/L		92	60 - 133	5	25
Chlorodibromomethane	<0.547	U	50.0	46.33		ug/L		93	73 - 125	6	25
Chloroethane	<1.98	U	50.0	39.13		ug/L		78	60 - 140	3	25
Chloroform	<0.464	U	50.0	43.71		ug/L		87	70 - 130	6	25
Chloromethane	<2.04	U	50.0	32.78		ug/L		66	60 - 140	7	25
Chloroprene	<0.598	U	50.0	38.59		ug/L		77	70 - 130	6	25
cis-1,2-Dichloroethene	<0.457	U	50.0	42.76		ug/L		86	75 - 125	7	25
cis-1,3-Dichloropropene	<1.07	U	50.0	46.10		ug/L		92	74 - 125	6	25
Cumene (isopropylbenzene)	<0.592	U	50.0	44.20		ug/L		88	75 - 125	4	25
Cyclohexane	<1.29	U	50.0	38.33		ug/L		77	70 - 130	4	25
Dibromomethane	<0.357	U	50.0	46.69		ug/L		93	69 - 127	8	25
Dichlorodifluoromethane	<0.785	U F1 *1	50.0	26.12	F1	ug/L		52	70 - 130	4	25
Ethyl methacrylate	<1.12	U	50.0	45.09		ug/L		90	70 - 130	6	25
Ethylbenzene	<0.385	U	50.0	44.51		ug/L		89	75 - 125	4	25
Hexane	<0.517	U	50.0	35.93		ug/L		72	72 - 125	7	25
Iodomethane	<6.52	U	50.0	49.87		ug/L		100	75 - 125	7	25
Isobutanol	<17.1	U	1240	1008		ug/L		81	60 - 140	5	25
Methacrylonitrile	<2.72	U	500	429.3		ug/L		86	70 - 130	8	25
Methyl methacrylate	<2.25	U	100	89.03		ug/L		89	70 - 130	6	25
Methyl tert-butyl ether	<1.39	U	50.0	43.47		ug/L		87	65 - 135	7	25
Methylene Chloride	<1.73	U	50.0	42.61		ug/L		85	75 - 125	6	25
Propionitrile	<3.34	U	500	416.0		ug/L		83	70 - 130	8	25
Propylbenzene	<0.429	U	50.0	45.70		ug/L		91	75 - 125	2	25
Styrene	<0.619	U	50.0	46.47		ug/L		93	75 - 125	4	25
Tetrachloroethene	<0.655	U	50.0	45.37		ug/L		91	71 - 125	3	25
Tetrahydrofuran	<1.83	U	100	83.33		ug/L		83	75 - 125	10	25
Toluene	<0.475	U	50.0	44.68		ug/L		89	59 - 139	4	25
trans-1,2-Dichloroethene	<0.368	U	50.0	42.48		ug/L		85	75 - 125	8	25
trans-1,3-Dichloropropene	<1.27	U	50.0	45.63		ug/L		91	66 - 125	5	25
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	45.75		ug/L		91	70 - 130	5	25
Trichloroethene	<0.791	U	50.0	46.13		ug/L		92	62 - 137	4	25
Trichlorofluoromethane	<0.560	U	50.0	41.43		ug/L		83	60 - 140	4	25

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-246085-B-4 MSD

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl acetate	<2.14	U	250	204.6		ug/L		82	60 - 140	8	25
Vinyl chloride	<0.428	U	50.0	36.59		ug/L		73	60 - 140	2	25
Xylenes, Total	<1.24	U	100	88.80		ug/L		89	75 - 125	4	25
o-Xylene	<0.502	U	50.0	44.62		ug/L		89	75 - 125	4	25
m,p-Xylenes	<1.24	U	50.0	44.18		ug/L		88	75 - 125	5	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	99		80 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-130405/1-A

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.150	U	0.571	0.150	ug/L		11/10/23 06:40	11/15/23 18:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	137	S1+	37 - 133	11/10/23 06:40	11/15/23 18:59	1

Lab Sample ID: LCS 860-130405/2-A

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.86	0.9155		ug/L		32	27 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	106		35 - 130
2-Fluorophenol (Surr)	61		19 - 120
2-Fluorobiphenyl	122		43 - 130
Nitrobenzene-d5 (Surr)	144	S1+	37 - 133
Phenol-d5 (Surr)	48		8 - 124
p-Terphenyl-d14 (Surr)	93		47 - 130

Lab Sample ID: LCSD 860-130405/3-A

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130405

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.86	0.9367		ug/L		33	27 - 130	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	110		35 - 130

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-130405/3-A

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130405

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorophenol (Surr)	59		19 - 120
2-Fluorobiphenyl	109		43 - 130
Nitrobenzene-d5 (Surr)	127		37 - 133
Phenol-d5 (Surr)	45		8 - 124
p-Terphenyl-d14 (Surr)	83		47 - 130

Lab Sample ID: 860-61041-C-6-B MS

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 130405

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	12.7	F1	3.18	12.05	F1	ug/L		-19	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	150	S1+	35 - 130
2-Fluorophenol (Surr)	81		19 - 120
2-Fluorobiphenyl	98		43 - 130
Nitrobenzene-d5 (Surr)	125		37 - 133
Phenol-d5 (Surr)	53		8 - 124
p-Terphenyl-d14 (Surr)	87		47 - 130

Lab Sample ID: 860-61041-C-6-C MSD

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 130405

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1,4-Dioxane	12.7	F1	3.17	11.32	F1	ug/L		-43	70 - 130	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	170	S1+	35 - 130
2-Fluorophenol (Surr)	81		19 - 120
2-Fluorobiphenyl	99		43 - 130
Nitrobenzene-d5 (Surr)	138	S1+	37 - 133
Phenol-d5 (Surr)	48		8 - 124
p-Terphenyl-d14 (Surr)	98		47 - 130

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 860-130871/1-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/14/23 06:48	11/14/23 20:01	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/14/23 06:48	11/14/23 20:01	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/14/23 06:48	11/14/23 20:01	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/14/23 06:48	11/14/23 20:01	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/14/23 06:48	11/14/23 20:01	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130871/1-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/14/23 06:48	11/14/23 20:01	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/14/23 06:48	11/14/23 20:01	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/14/23 06:48	11/14/23 20:01	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/14/23 06:48	11/14/23 20:01	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/14/23 06:48	11/14/23 20:01	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/14/23 06:48	11/14/23 20:01	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/14/23 06:48	11/14/23 20:01	1
3,3'-Dimethylbenzidine	<0.444	U	8.00	0.444	ug/L		11/14/23 06:48	11/14/23 20:01	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/14/23 06:48	11/14/23 20:01	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/14/23 06:48	11/14/23 20:01	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/14/23 06:48	11/14/23 20:01	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/14/23 06:48	11/14/23 20:01	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/14/23 06:48	11/14/23 20:01	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/14/23 06:48	11/14/23 20:01	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/14/23 06:48	11/14/23 20:01	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/14/23 20:01	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/14/23 06:48	11/14/23 20:01	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/14/23 06:48	11/14/23 20:01	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/14/23 06:48	11/14/23 20:01	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/14/23 06:48	11/14/23 20:01	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/14/23 20:01	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/14/23 06:48	11/14/23 20:01	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/14/23 06:48	11/14/23 20:01	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/14/23 06:48	11/14/23 20:01	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/14/23 06:48	11/14/23 20:01	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/14/23 20:01	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/14/23 20:01	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/14/23 20:01	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/14/23 06:48	11/14/23 20:01	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130871/1-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/14/23 20:01	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/14/23 06:48	11/14/23 20:01	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/14/23 06:48	11/14/23 20:01	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/14/23 06:48	11/14/23 20:01	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/14/23 06:48	11/14/23 20:01	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/14/23 06:48	11/14/23 20:01	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/14/23 20:01	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/14/23 20:01	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/14/23 20:01	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/14/23 20:01	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/14/23 06:48	11/14/23 20:01	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/14/23 06:48	11/14/23 20:01	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/14/23 06:48	11/14/23 20:01	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/14/23 20:01	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/14/23 06:48	11/14/23 20:01	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/14/23 06:48	11/14/23 20:01	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/14/23 06:48	11/14/23 20:01	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/14/23 06:48	11/14/23 20:01	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/14/23 06:48	11/14/23 20:01	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/14/23 20:01	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/14/23 06:48	11/14/23 20:01	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/14/23 06:48	11/14/23 20:01	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/14/23 20:01	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/14/23 06:48	11/14/23 20:01	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/14/23 20:01	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/14/23 06:48	11/14/23 20:01	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/14/23 06:48	11/14/23 20:01	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/14/23 06:48	11/14/23 20:01	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/14/23 06:48	11/14/23 20:01	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/14/23 06:48	11/14/23 20:01	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/14/23 06:48	11/14/23 20:01	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/14/23 20:01	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/14/23 06:48	11/14/23 20:01	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/14/23 06:48	11/14/23 20:01	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/14/23 06:48	11/14/23 20:01	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/14/23 06:48	11/14/23 20:01	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/14/23 20:01	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/14/23 06:48	11/14/23 20:01	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/14/23 06:48	11/14/23 20:01	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130871/1-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/14/23 06:48	11/14/23 20:01	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/14/23 06:48	11/14/23 20:01	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/14/23 06:48	11/14/23 20:01	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/14/23 06:48	11/14/23 20:01	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/14/23 06:48	11/14/23 20:01	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/14/23 06:48	11/14/23 20:01	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/14/23 06:48	11/14/23 20:01	1
p-Phenylene diamine	<10.0	U	10.0	10.0	ug/L		11/14/23 06:48	11/14/23 20:01	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/14/23 06:48	11/14/23 20:01	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/14/23 20:01	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/14/23 06:48	11/14/23 20:01	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/14/23 06:48	11/14/23 20:01	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/14/23 06:48	11/14/23 20:01	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/14/23 06:48	11/14/23 20:01	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/14/23 06:48	11/14/23 20:01	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/14/23 20:01	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/14/23 20:01	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/14/23 06:48	11/14/23 20:01	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/14/23 06:48	11/14/23 20:01	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/14/23 20:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	42		31 - 132	11/14/23 06:48	11/14/23 20:01	1
2-Fluorobiphenyl	53		40 - 130	11/14/23 06:48	11/14/23 20:01	1
2-Fluorophenol (Surr)	37		21 - 114	11/14/23 06:48	11/14/23 20:01	1
Nitrobenzene-d5 (Surr)	56		37 - 130	11/14/23 06:48	11/14/23 20:01	1
Phenol-d5 (Surr)	29		16 - 117	11/14/23 06:48	11/14/23 20:01	1
p-Terphenyl-d14	97		20 - 141	11/14/23 06:48	11/14/23 20:01	1

Lab Sample ID: LCS 860-130871/2-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	20.0	9.378		ug/L		47	41 - 117
1,2,4,5-Tetrachlorobenzene	20.0	9.054		ug/L		45	39 - 120
1,2,4-Trichlorobenzene	20.0	9.674		ug/L		48	34 - 117
1,2-Dichlorobenzene	20.0	10.19		ug/L		51	38 - 111
1,3,5-Trinitrobenzene	20.0	16.37		ug/L		82	35 - 128
1,3-Dichlorobenzene	20.0	9.937		ug/L		50	37 - 111
1,3-Dinitrobenzene	20.0	10.67		ug/L		53	36 - 131
1,4-Dichlorobenzene	20.0	10.02		ug/L		50	37 - 111
1,4-Naphthoquinone	20.0	10.47		ug/L		52	10 - 150
1-Naphthylamine	20.0	8.173		ug/L		41	40 - 120
2,2'-oxybis[1-chloropropane]	20.0	9.637		ug/L		48	10 - 150
2,3,4,6-Tetrachlorophenol	20.0	11.16		ug/L		56	33 - 132
2,4,5-Trichlorophenol	20.0	10.38		ug/L		52	39 - 125
2,4,6-Trichlorophenol	20.0	10.33		ug/L		52	42 - 125

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130871/2-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dichlorophenol	20.0	10.22		ug/L		51	38 - 120
2,4-Dimethylphenol	20.0	11.77		ug/L		59	39 - 117
2,4-Dinitrophenol	20.0	11.12		ug/L		56	13 - 152
2,4-Dinitrotoluene	20.0	11.88		ug/L		59	41 - 128
2,6-Dichlorophenol	20.0	9.995		ug/L		50	42 - 118
2,6-Dinitrotoluene	20.0	10.42		ug/L		52	42 - 127
2-Acetylaminofluorene	20.0	14.09		ug/L		70	40 - 130
2-Chloronaphthalene	20.0	9.048		ug/L		45	40 - 118
2-Chlorophenol	20.0	10.32		ug/L		52	41 - 108
2-Methylnaphthalene	20.0	9.674		ug/L		48	37 - 112
2-Methylphenol	20.0	9.840		ug/L		49	36 - 125
2-Naphthylamine	20.0	7.902	J	ug/L		40	40 - 120
2-Nitroaniline	20.0	10.92		ug/L		55	34 - 126
2-Nitrophenol	20.0	10.30		ug/L		51	38 - 125
2-Picoline	20.0	5.721		ug/L		29	11 - 107
2-Toluidine	20.0	8.270		ug/L		41	38 - 124
3 & 4 Methylphenol	20.0	9.502		ug/L		48	35 - 116
3,3'-Dichlorobenzidine	20.0	15.81		ug/L		79	29 - 141
3,3'-Dimethylbenzidine	20.0	5.756	J *	ug/L		29	40 - 130
3-Methylcholanthrene	20.0	16.14		ug/L		81	20 - 130
3-Nitroaniline	20.0	10.95		ug/L		55	42 - 123
4,6-Dinitro-2-methylphenol	20.0	13.29		ug/L		66	12 - 157
4-Aminobiphenyl	20.0	9.463		ug/L		47	20 - 130
4-Bromophenyl phenyl ether	20.0	9.561		ug/L		48	40 - 126
4-Chloro-3-methylphenol	20.0	9.711		ug/L		49	40 - 119
4-Chloroaniline	20.0	9.018		ug/L		45	39 - 111
4-Chlorophenyl phenyl ether	20.0	9.462		ug/L		47	40 - 122
4-Nitroaniline	20.0	13.87		ug/L		69	42 - 125
4-Nitroquinoline-1-oxide	20.0	15.34		ug/L		77	20 - 130
7,12-Dimethylbenz(a)anthracene	20.0	14.20		ug/L		71	40 - 120
Acenaphthene	20.0	9.855		ug/L		49	41 - 116
Acenaphthylene	20.0	9.935		ug/L		50	41 - 118
Acetophenone	20.0	10.06		ug/L		50	23 - 175
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0	
Aniline	20.0	8.544		ug/L		43	31 - 100
Anthracene	20.0	10.92		ug/L		55	39 - 127
Benzo[a]anthracene	20.0	15.75		ug/L		79	40 - 129
Benzo[a]pyrene	20.0	16.73		ug/L		84	36 - 141
Benzo[b]fluoranthene	20.0	16.26		ug/L		81	34 - 139
Benzo[g,h,i]perylene	20.0	17.24		ug/L		86	32 - 141
Benzo[k]fluoranthene	20.0	16.81		ug/L		84	31 - 139
Benzyl alcohol	20.0	11.00		ug/L		55	37 - 102
Bis(2-chloroethoxy)methane	20.0	9.618		ug/L		48	36 - 113
Bis(2-chloroethyl)ether	20.0	10.45		ug/L		52	38 - 111
Bis(2-ethylhexyl) phthalate	20.0	16.47		ug/L		82	44 - 136
Butyl benzyl phthalate	20.0	17.14		ug/L		86	44 - 133
Chrysene	20.0	15.30		ug/L		76	41 - 124
Dibenz(a,h)anthracene	20.0	17.57		ug/L		88	35 - 143

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130871/2-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dibenzofuran	20.0	9.674		ug/L		48	41 - 119
Diethyl phthalate	20.0	10.73		ug/L		54	41 - 125
Dimethyl phthalate	20.0	10.57		ug/L		53	42 - 123
Di-n-butyl phthalate	20.0	15.83		ug/L		79	41 - 133
Di-n-octyl phthalate	20.0	17.46		ug/L		87	34 - 145
Diphenyl ether	20.0	9.213		ug/L		46	40 - 130
Ethyl methanesulfonate	20.0	10.65		ug/L		53	40 - 127
Fluoranthene	20.0	14.30		ug/L		72	38 - 132
Fluorene	20.0	9.718		ug/L		49	41 - 121
Hexachlorobenzene	20.0	9.910		ug/L		50	39 - 128
Hexachlorobutadiene	20.0	9.061		ug/L		45	31 - 120
Hexachlorocyclopentadiene	20.0	11.33		ug/L		57	15 - 117
Hexachloroethane	20.0	9.593		ug/L		48	37 - 109
Hexachloropropene	20.0	8.989		ug/L		45	24 - 122
Indeno[1,2,3-cd]pyrene	20.0	17.49		ug/L		87	35 - 141
Isophorone	20.0	10.09		ug/L		50	40 - 115
Methyl methanesulfonate	20.0	9.236		ug/L		46	33 - 120
Naphthalene	20.0	9.633		ug/L		48	37 - 113
Nitrobenzene	20.0	10.73		ug/L		54	37 - 114
N-Nitro-o-toluidine	20.0	11.44		ug/L		57	40 - 120
N-Nitrosodiethylamine	20.0	10.73		ug/L		54	42 - 115
N-Nitrosodimethylamine	20.0	9.030		ug/L		45	28 - 126
N-Nitrosodi-n-butylamine	20.0	7.966		ug/L		40	34 - 122
N-Nitrosodi-n-propylamine	20.0	9.982		ug/L		50	38 - 117
N-Nitrosodiphenylamine	20.0	10.70		ug/L		54	40 - 127
N-Nitrosomethylethylamine	20.0	10.88		ug/L		54	41 - 108
N-Nitrosomorpholine	20.0	10.14		ug/L		51	32 - 115
N-Nitrosopiperidine	20.0	10.58		ug/L		53	39 - 115
N-Nitrosopyrrolidine	20.0	11.09		ug/L		55	36 - 121
p-Dimethylamino azobenzene	20.0	13.35		ug/L		67	38 - 124
Pentachlorobenzene	20.0	9.341		ug/L		47	40 - 123
Pentachloronitrobenzene	20.0	11.34		ug/L		57	40 - 120
Pentachlorophenol	20.0	12.78		ug/L		64	10 - 137
Phenacetin	20.0	14.50		ug/L		72	20 - 130
Phenanthrene	20.0	10.64		ug/L		53	39 - 126
Phenol	20.0	6.394		ug/L		32	15 - 106
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150
Pronamide	20.0	15.42		ug/L		77	25 - 120
Pyrene	20.0	13.27		ug/L		66	40 - 130
Pyridine	20.0	5.731		ug/L		29	16 - 135
Safrole, Total	20.0	9.430		ug/L		47	40 - 120
Aramite Peak 2	10.0	6.932		ug/L		69	35 - 130
Isosafrole Peak 1	3.20	<2.46	U	ug/L		47	40 - 120
Diallate Peak 2	5.20	2.539	J	ug/L		49	38 - 130
Isosafrole Peak 2	16.8	8.008		ug/L		48	40 - 120
Diallate Peak 1	14.8	7.896	J	ug/L		53	38 - 130
Aramite Peak 1	10.0	7.103		ug/L		71	35 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130871/2-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130871

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	59		31 - 132
2-Fluorobiphenyl	55		40 - 130
2-Fluorophenol (Surr)	45		21 - 114
Nitrobenzene-d5 (Surr)	60		37 - 130
Phenol-d5 (Surr)	34		16 - 117
p-Terphenyl-d14	98		20 - 141

Lab Sample ID: LCSD 860-130871/3-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	20.0	9.993		ug/L		50	41 - 117	6	30
1,2,4,5-Tetrachlorobenzene	20.0	9.825		ug/L		49	39 - 120	8	30
1,2,4-Trichlorobenzene	20.0	9.817		ug/L		49	34 - 117	1	30
1,2-Dichlorobenzene	20.0	10.34		ug/L		52	38 - 111	1	30
1,3,5-Trinitrobenzene	20.0	16.30		ug/L		82	35 - 128	0	30
1,3-Dichlorobenzene	20.0	10.18		ug/L		51	37 - 111	2	30
1,3-Dinitrobenzene	20.0	12.29		ug/L		61	36 - 131	14	30
1,4-Dichlorobenzene	20.0	10.13		ug/L		51	37 - 111	1	30
1,4-Naphthoquinone	20.0	12.71		ug/L		64	10 - 150	19	30
1-Naphthylamine	20.0	10.19		ug/L		51	40 - 120	22	30
2,2'-oxybis[1-chloropropane]	20.0	10.00		ug/L		50	10 - 150	4	30
2,3,4,6-Tetrachlorophenol	20.0	13.19		ug/L		66	33 - 132	17	30
2,4,5-Trichlorophenol	20.0	12.29		ug/L		61	39 - 125	17	30
2,4,6-Trichlorophenol	20.0	11.98		ug/L		60	42 - 125	15	30
2,4-Dichlorophenol	20.0	11.09		ug/L		55	38 - 120	8	30
2,4-Dimethylphenol	20.0	12.63		ug/L		63	39 - 117	7	30
2,4-Dinitrophenol	20.0	13.10		ug/L		65	13 - 152	16	30
2,4-Dinitrotoluene	20.0	13.46		ug/L		67	41 - 128	13	30
2,6-Dichlorophenol	20.0	10.52		ug/L		53	42 - 118	5	30
2,6-Dinitrotoluene	20.0	12.19		ug/L		61	42 - 127	16	30
2-Acetylaminofluorene	20.0	13.77		ug/L		69	40 - 130	2	30
2-Chloronaphthalene	20.0	9.921		ug/L		50	40 - 118	9	30
2-Chlorophenol	20.0	10.37		ug/L		52	41 - 108	0	30
2-Methylnaphthalene	20.0	10.21		ug/L		51	37 - 112	5	30
2-Methylphenol	20.0	10.02		ug/L		50	36 - 125	2	30
2-Naphthylamine	20.0	10.19		ug/L		51	40 - 120	25	30
2-Nitroaniline	20.0	12.97		ug/L		65	34 - 126	17	30
2-Nitrophenol	20.0	11.06		ug/L		55	38 - 125	7	30
2-Picoline	20.0	5.823		ug/L		29	11 - 107	2	30
2-Toluidine	20.0	10.13		ug/L		51	38 - 124	20	30
3 & 4 Methylphenol	20.0	9.853		ug/L		49	35 - 116	4	30
3,3'-Dichlorobenzidine	20.0	15.05		ug/L		75	29 - 141	5	30
3,3'-Dimethylbenzidine	20.0	4.750	J *	ug/L		24	40 - 130	19	30
3-Methylcholanthrene	20.0	15.12		ug/L		76	20 - 130	7	30
3-Nitroaniline	20.0	12.81		ug/L		64	42 - 123	16	30
4,6-Dinitro-2-methylphenol	20.0	13.57		ug/L		68	12 - 157	2	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130871/3-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Aminobiphenyl	20.0	10.60		ug/L		53	20 - 130	11	30
4-Bromophenyl phenyl ether	20.0	11.25		ug/L		56	40 - 126	16	30
4-Chloro-3-methylphenol	20.0	11.41		ug/L		57	40 - 119	16	30
4-Chloroaniline	20.0	10.61		ug/L		53	39 - 111	16	30
4-Chlorophenyl phenyl ether	20.0	10.89		ug/L		54	40 - 122	14	30
4-Nitroaniline	20.0	14.41		ug/L		72	42 - 125	4	30
4-Nitroquinoline-1-oxide	20.0	15.30		ug/L		76	20 - 130	0	30
7,12-Dimethylbenz(a)anthracene	20.0	13.37		ug/L		67	40 - 120	6	30
Acenaphthene	20.0	10.71		ug/L		54	41 - 116	8	30
Acenaphthylene	20.0	11.30		ug/L		57	41 - 118	13	30
Acetophenone	20.0	10.22		ug/L		51	23 - 175	2	30
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0		NC	30
Aniline	20.0	9.504		ug/L		48	31 - 100	11	30
Anthracene	20.0	12.48		ug/L		62	39 - 127	13	30
Benzo[a]anthracene	20.0	15.38		ug/L		77	40 - 129	2	30
Benzo[a]pyrene	20.0	16.00		ug/L		80	36 - 141	4	30
Benzo[b]fluoranthene	20.0	14.99		ug/L		75	34 - 139	8	30
Benzo[g,h,i]perylene	20.0	16.36		ug/L		82	32 - 141	5	30
Benzo[k]fluoranthene	20.0	15.62		ug/L		78	31 - 139	7	30
Benzyl alcohol	20.0	11.12		ug/L		56	37 - 102	1	30
Bis(2-chloroethoxy)methane	20.0	10.43		ug/L		52	36 - 113	8	30
Bis(2-chloroethyl)ether	20.0	10.84		ug/L		54	38 - 111	4	30
Bis(2-ethylhexyl) phthalate	20.0	15.90		ug/L		79	44 - 136	4	30
Butyl benzyl phthalate	20.0	16.95		ug/L		85	44 - 133	1	30
Chrysene	20.0	14.95		ug/L		75	41 - 124	2	30
Dibenz(a,h)anthracene	20.0	16.35		ug/L		82	35 - 143	7	30
Dibenzofuran	20.0	11.00		ug/L		55	41 - 119	13	30
Diethyl phthalate	20.0	12.21		ug/L		61	41 - 125	13	30
Dimethyl phthalate	20.0	12.05		ug/L		60	42 - 123	13	30
Di-n-butyl phthalate	20.0	15.85		ug/L		79	41 - 133	0	30
Di-n-octyl phthalate	20.0	17.06		ug/L		85	34 - 145	2	30
Diphenyl ether	20.0	9.911		ug/L		50	40 - 130	7	30
Ethyl methanesulfonate	20.0	11.19		ug/L		56	40 - 127	5	30
Fluoranthene	20.0	14.59		ug/L		73	38 - 132	2	30
Fluorene	20.0	11.10		ug/L		56	41 - 121	13	30
Hexachlorobenzene	20.0	11.08		ug/L		55	39 - 128	11	30
Hexachlorobutadiene	20.0	9.692		ug/L		48	31 - 120	7	30
Hexachlorocyclopentadiene	20.0	11.44		ug/L		57	15 - 117	1	30
Hexachloroethane	20.0	9.725		ug/L		49	37 - 109	1	30
Hexachloropropene	20.0	9.151		ug/L		46	24 - 122	2	30
Indeno[1,2,3-cd]pyrene	20.0	16.40		ug/L		82	35 - 141	6	30
Isophorone	20.0	11.16		ug/L		56	40 - 115	10	30
Methyl methanesulfonate	20.0	9.763		ug/L		49	33 - 120	6	30
Naphthalene	20.0	9.979		ug/L		50	37 - 113	4	30
Nitrobenzene	20.0	10.62		ug/L		53	37 - 114	1	30
N-Nitro-o-toluidine	20.0	13.26		ug/L		66	40 - 120	15	30
N-Nitrosodiethylamine	20.0	11.08		ug/L		55	42 - 115	3	30
N-Nitrosodimethylamine	20.0	8.987		ug/L		45	28 - 126	0	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130871/3-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodi-n-butylamine	20.0	8.847		ug/L		44	34 - 122	10	30
N-Nitrosodi-n-propylamine	20.0	10.55		ug/L		53	38 - 117	6	30
N-Nitrosodiphenylamine	20.0	12.06		ug/L		60	40 - 127	12	30
N-Nitrosomethylethylamine	20.0	11.11		ug/L		56	41 - 108	2	30
N-Nitrosomorpholine	20.0	10.77		ug/L		54	32 - 115	6	30
N-Nitrosopiperidine	20.0	11.18		ug/L		56	39 - 115	6	30
N-Nitrosopyrrolidine	20.0	11.66		ug/L		58	36 - 121	5	30
p-Dimethylamino azobenzene	20.0	13.20		ug/L		66	38 - 124	1	30
Pentachlorobenzene	20.0	10.24		ug/L		51	40 - 123	9	30
Pentachloronitrobenzene	20.0	12.37		ug/L		62	40 - 120	9	30
Pentachlorophenol	20.0	12.97		ug/L		65	10 - 137	1	30
Phenacetin	20.0	14.21		ug/L		71	20 - 130	2	30
Phenanthrene	20.0	11.74		ug/L		59	39 - 126	10	30
Phenol	20.0	6.431		ug/L		32	15 - 106	1	30
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150	NC	30
Pronamide	20.0	15.36		ug/L		77	25 - 120	0	30
Pyrene	20.0	13.63		ug/L		68	40 - 130	3	30
Pyridine	20.0	5.281		ug/L		26	16 - 135	8	30
Safrole, Total	20.0	10.15		ug/L		51	40 - 120	7	30
Aramite Peak 2	10.0	6.922		ug/L		69	35 - 130	0	30
Isosafrole Peak 1	3.20	<2.46	U	ug/L		48	40 - 120	3	30
Diallate Peak 2	5.20	2.884	J	ug/L		55	38 - 130	13	30
Isosafrole Peak 2	16.8	8.901		ug/L		53	40 - 120	11	30
Diallate Peak 1	14.8	9.027		ug/L		61	38 - 130	13	30
Aramite Peak 1	10.0	6.924		ug/L		69	35 - 130	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	65		31 - 132
2-Fluorobiphenyl	58		40 - 130
2-Fluorophenol (Surr)	42		21 - 114
Nitrobenzene-d5 (Surr)	62		37 - 130
Phenol-d5 (Surr)	34		16 - 117
p-Terphenyl-d14	92		20 - 141

Lab Sample ID: 860-61028-H-17-B MS

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	<0.428	U	20.0	10.13		ug/L		51	41 - 117
1,2,4,5-Tetrachlorobenzene	<0.672	U	20.0	9.497		ug/L		47	39 - 120
1,2,4-Trichlorobenzene	<0.680	U	20.0	9.882		ug/L		49	34 - 117
1,2-Dichlorobenzene	<0.296	U	20.0	10.03		ug/L		50	38 - 111
1,3,5-Trinitrobenzene	<1.43	U F2 F1	20.0	13.22	F1	ug/L		66	70 - 130
1,3-Dichlorobenzene	<0.350	U	20.0	9.982		ug/L		50	37 - 111
1,3-Dinitrobenzene	<0.112	U	20.0	12.37		ug/L		62	36 - 131
1,4-Dichlorobenzene	<0.428	U	20.0	9.876		ug/L		49	37 - 111
1,4-Naphthoquinone	<1.85	U F1	20.0	13.29	F1	ug/L		66	70 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61028-H-17-B MS

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Naphthylamine	<0.232	U F1	20.0	3.985	F1	ug/L		20	40 - 120
2,2'-oxybis[1-chloropropane]	<0.139	U	20.0	9.702		ug/L		49	32 - 110
2,3,4,6-Tetrachlorophenol	<0.174	U	20.0	12.93		ug/L		65	33 - 132
2,4,5-Trichlorophenol	<0.108	U	20.0	12.84		ug/L		64	39 - 125
2,4,6-Trichlorophenol	<0.135	U	20.0	11.73		ug/L		59	42 - 125
2,4-Dichlorophenol	<0.115	U	20.0	10.80		ug/L		54	38 - 120
2,4-Dimethylphenol	<0.148	U	20.0	13.02		ug/L		65	39 - 117
2,4-Dinitrophenol	<1.46	U	20.0	13.58		ug/L		68	13 - 152
2,4-Dinitrotoluene	<0.127	U	20.0	12.90		ug/L		64	41 - 128
2,6-Dichlorophenol	<0.126	U	20.0	10.44		ug/L		52	42 - 118
2,6-Dinitrotoluene	<0.199	U	20.0	12.03		ug/L		60	42 - 127
2-Acetylaminofluorene	<1.52	U F2 F1	20.0	11.04	F1	ug/L		55	70 - 130
2-Chloronaphthalene	<1.09	U	20.0	9.829		ug/L		49	40 - 118
2-Chlorophenol	<0.0135	U	20.0	10.60		ug/L		53	41 - 108
2-Methylnaphthalene	<0.480	U	20.0	10.44		ug/L		52	37 - 112
2-Methylphenol	<0.159	U	20.0	11.12		ug/L		56	36 - 125
2-Naphthylamine	<0.595	U F1	20.0	6.851	J F1	ug/L		34	40 - 120
2-Nitroaniline	<0.163	U	20.0	12.34		ug/L		62	34 - 126
2-Nitrophenol	<0.135	U	20.0	11.09		ug/L		55	38 - 125
2-Picoline	<0.215	U	20.0	5.853		ug/L		29	11 - 107
2-Toluidine	<0.934	U F1	20.0	8.595	F1	ug/L		43	70 - 130
3 & 4 Methylphenol	<0.163	U	20.0	10.79		ug/L		54	35 - 116
3,3'-Dichlorobenzidine	<0.220	U F2	20.0	6.844		ug/L		34	29 - 141
3,3'-Dimethylbenzidine	<0.444	U *- F1	20.0	1.671	J F1	ug/L		8	70 - 130
3-Methylcholanthrene	<0.159	U F2	20.0	11.75		ug/L		59	20 - 130
3-Nitroaniline	<0.344	U	20.0	10.06		ug/L		50	42 - 123
4,6-Dinitro-2-methylphenol	<0.736	U	20.0	12.92		ug/L		65	12 - 157
4-Aminobiphenyl	<0.297	U F2	20.0	7.127	J	ug/L		36	20 - 130
4-Bromophenyl phenyl ether	<0.167	U	20.0	11.07		ug/L		55	40 - 126
4-Chloro-3-methylphenol	<0.157	U	20.0	12.17		ug/L		61	40 - 119
4-Chloroaniline	<0.149	U	20.0	9.248		ug/L		46	39 - 111
4-Chlorophenyl phenyl ether	<0.232	U	20.0	10.85		ug/L		54	40 - 122
4-Nitroaniline	<0.247	U	20.0	9.267		ug/L		46	42 - 125
4-Nitroquinoline-1-oxide	<2.15	U F2 F1	20.0	12.11	F1	ug/L		61	70 - 130
7,12-Dimethylbenz(a)anthracene	<0.0610	U F2	20.0	10.07		ug/L		50	40 - 120
Acenaphthene	<0.208	U	20.0	10.84		ug/L		54	41 - 118
Acenaphthylene	<0.215	U	20.0	11.02		ug/L		55	41 - 116
Acetophenone	<0.225	U	20.0	10.12		ug/L		51	23 - 125
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	20.0	<4.00	U F1	ug/L		0	70 - 130
Aniline	<0.314	U	20.0	7.696		ug/L		38	31 - 120
Anthracene	<0.154	U	20.0	11.80		ug/L		59	39 - 127
Benzo[a]anthracene	<0.150	U F2	20.0	11.97		ug/L		60	40 - 129
Benzo[a]pyrene	<0.148	U F2	20.0	12.66		ug/L		63	36 - 141
Benzo[b]fluoranthene	<0.210	U F2	20.0	11.99		ug/L		60	34 - 139
Benzo[g,h,i]perylene	<0.143	U F2	20.0	12.48		ug/L		62	32 - 141
Benzo[k]fluoranthene	<0.166	U F2	20.0	12.27		ug/L		61	31 - 139
Benzyl alcohol	<4.50	U	20.0	11.57		ug/L		58	37 - 102
Bis(2-chloroethoxy)methane	<0.170	U	20.0	10.24		ug/L		51	36 - 113

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61028-H-17-B MS

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethyl)ether	<0.278	U	20.0	10.58		ug/L		53	38 - 111
Bis(2-ethylhexyl) phthalate	<0.225	U F2	20.0	11.95		ug/L		60	44 - 136
Butyl benzyl phthalate	<0.150	U F2	20.0	12.50		ug/L		63	44 - 133
Chrysene	<0.159	U F2	20.0	11.70		ug/L		58	41 - 124
Dibenz(a,h)anthracene	<0.148	U F2	20.0	12.87		ug/L		64	35 - 143
Dibenzofuran	<0.336	U	20.0	10.94		ug/L		55	41 - 119
Diethyl phthalate	<0.118	U	20.0	11.45		ug/L		57	41 - 125
Dimethyl phthalate	<0.143	U	20.0	11.71		ug/L		59	42 - 123
Di-n-butyl phthalate	<0.800	U F2	20.0	13.13		ug/L		66	41 - 133
Di-n-octyl phthalate	<0.169	U	20.0	13.86		ug/L		69	34 - 145
Diphenyl ether	<0.364	U	20.0	9.572		ug/L		48	
Ethyl methanesulfonate	<1.38	U F1	20.0	10.49	F1	ug/L		52	70 - 130
Fluoranthene	<0.148	U F2	20.0	12.47		ug/L		62	38 - 132
Fluorene	<0.205	U	20.0	11.11		ug/L		56	41 - 121
Hexachlorobenzene	<0.126	U	20.0	10.71		ug/L		54	39 - 128
Hexachlorobutadiene	<0.252	U	20.0	9.450		ug/L		47	31 - 120
Hexachlorocyclopentadiene	<0.431	U	20.0	11.43		ug/L		57	15 - 117
Hexachloroethane	<0.140	U	20.0	9.283		ug/L		46	37 - 109
Hexachloropropene	<0.213	U	20.0	9.193		ug/L		46	
Indeno[1,2,3-cd]pyrene	<0.852	U F2	20.0	12.79		ug/L		64	35 - 141
Isophorone	<0.168	U	20.0	10.87		ug/L		54	40 - 115
Methyl methanesulfonate	<0.0610	U F1	20.0	9.250	F1	ug/L		46	70 - 130
Naphthalene	<0.423	U	20.0	10.36		ug/L		52	37 - 113
Nitrobenzene	<0.934	U	20.0	12.03		ug/L		60	37 - 114
N-Nitro-o-toluidine	<1.31	U	20.0	10.85		ug/L		54	35 - 130
N-Nitrosodiethylamine	<1.54	U F1	20.0	10.80	F1	ug/L		54	70 - 130
N-Nitrosodimethylamine	<0.126	U	20.0	9.118		ug/L		46	28 - 127
N-Nitrosodi-n-butylamine	<1.54	U	20.0	9.076		ug/L		45	34 - 122
N-Nitrosodi-n-propylamine	<0.161	U	20.0	10.31		ug/L		52	38 - 117
N-Nitrosodiphenylamine	<0.155	U	20.0	12.20		ug/L		61	40 - 127
N-Nitrosomethylethylamine	<0.199	U	20.0	10.77		ug/L		54	28 - 126
N-Nitrosomorpholine	<1.44	U F1	20.0	10.75	F1	ug/L		54	70 - 130
N-Nitrosopiperidine	<1.44	U	20.0	10.83		ug/L		54	39 - 115
N-Nitrosopyrrolidine	<1.38	U	20.0	11.48		ug/L		57	36 - 121
p-Dimethylamino azobenzene	<0.0579	U F2	20.0	10.25		ug/L		51	38 - 124
Pentachlorobenzene	<1.18	U	20.0	10.01		ug/L		50	40 - 123
Pentachloronitrobenzene	<1.27	U	20.0	11.18		ug/L		56	40 - 120
Pentachlorophenol	<0.441	U	20.0	12.24		ug/L		61	10 - 137
Phenacetin	<1.32	U F2	20.0	11.73		ug/L		59	20 - 130
Phenanthrene	<0.176	U	20.0	11.43		ug/L		57	39 - 126
Phenol	<0.202	U	20.0	8.435		ug/L		42	15 - 106
p-Phenylene diamine	<10.0	U *- F1	20.0	<10.0	U F1	ug/L		0	1 - 150
Pronamide	<1.39	U F2	20.0	12.52		ug/L		63	25 - 120
Pyrene	<0.159	U F2	20.0	11.43		ug/L		57	40 - 130
Pyridine	<0.725	U	20.0	4.929		ug/L		25	16 - 135
Safrole, Total	<0.183	U F1	20.0	9.747	F1	ug/L		49	70 - 130
Aramite Peak 2	<2.74	U F2	10.0	5.486		ug/L		55	
Isosafrole Peak 1	<2.46	U F1	3.20	<2.46	U F1	ug/L		0	70 - 130
Diallate Peak 2	<0.602	U F1	5.20	2.985	J F1	ug/L		57	70 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61028-H-17-B MS

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Isosafrole Peak 2	<2.12	U F1	16.8	8.448	F1	ug/L		50	70 - 130
Diallate Peak 1	<0.675	U F1	14.8	8.867	F1	ug/L		60	70 - 130
Aramite Peak 1	<0.670	U F2	10.0	5.698		ug/L		57	

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	61		31 - 132
2-Fluorobiphenyl	58		40 - 130
2-Fluorophenol (Surr)	43		21 - 114
Nitrobenzene-d5 (Surr)	60		37 - 130
Phenol-d5 (Surr)	42		16 - 117
p-Terphenyl-d14	71		20 - 141

Lab Sample ID: 860-61028-H-17-C MSD

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	<0.428	U	20.0	10.22		ug/L		51	41 - 117	1	30
1,2,4,5-Tetrachlorobenzene	<0.672	U	20.0	9.793		ug/L		49	39 - 120	3	30
1,2,4-Trichlorobenzene	<0.680	U	20.0	9.806		ug/L		49	34 - 117	1	30
1,2-Dichlorobenzene	<0.296	U	20.0	10.60		ug/L		53	38 - 111	5	30
1,3,5-Trinitrobenzene	<1.43	U F2 F1	20.0	18.30	F2	ug/L		91	70 - 130	32	30
1,3-Dichlorobenzene	<0.350	U	20.0	9.916		ug/L		50	37 - 111	1	30
1,3-Dinitrobenzene	<0.112	U	20.0	12.77		ug/L		64	36 - 131	3	30
1,4-Dichlorobenzene	<0.428	U	20.0	9.981		ug/L		50	37 - 111	1	30
1,4-Naphthoquinone	<1.85	U F1	20.0	13.31	F1	ug/L		67	70 - 130	0	30
1-Naphthylamine	<0.232	U F1	20.0	4.817	F1	ug/L		24	40 - 120	19	30
2,2'-oxybis[1-chloropropane]	<0.139	U	20.0	9.927		ug/L		50	32 - 110	2	30
2,3,4,6-Tetrachlorophenol	<0.174	U	20.0	14.35		ug/L		72	33 - 132	10	30
2,4,5-Trichlorophenol	<0.108	U	20.0	12.47		ug/L		62	39 - 125	3	30
2,4,6-Trichlorophenol	<0.135	U	20.0	12.05		ug/L		60	42 - 125	3	30
2,4-Dichlorophenol	<0.115	U	20.0	10.42		ug/L		52	38 - 120	4	30
2,4-Dimethylphenol	<0.148	U	20.0	13.16		ug/L		66	39 - 117	1	30
2,4-Dinitrophenol	<1.46	U	20.0	15.29		ug/L		76	13 - 152	12	30
2,4-Dinitrotoluene	<0.127	U	20.0	13.82		ug/L		69	41 - 128	7	30
2,6-Dichlorophenol	<0.126	U	20.0	10.33		ug/L		52	42 - 118	1	30
2,6-Dinitrotoluene	<0.199	U	20.0	12.59		ug/L		63	42 - 127	5	30
2-Acetylaminofluorene	<1.52	U F2 F1	20.0	16.46	F2	ug/L		82	70 - 130	39	30
2-Chloronaphthalene	<1.09	U	20.0	9.683		ug/L		48	40 - 118	1	30
2-Chlorophenol	<0.0135	U	20.0	10.61		ug/L		53	41 - 108	0	30
2-Methylnaphthalene	<0.480	U	20.0	10.18		ug/L		51	37 - 112	3	30
2-Methylphenol	<0.159	U	20.0	11.94		ug/L		60	36 - 125	7	30
2-Naphthylamine	<0.595	U F1	20.0	7.828	J F1	ug/L		39	40 - 120	13	30
2-Nitroaniline	<0.163	U	20.0	12.31		ug/L		62	34 - 126	0	30
2-Nitrophenol	<0.135	U	20.0	11.39		ug/L		57	38 - 125	3	30
2-Picoline	<0.215	U	20.0	5.582		ug/L		28	11 - 107	5	30
2-Toluidine	<0.934	U F1	20.0	7.795	J F1	ug/L		39	70 - 130	10	30
3 & 4 Methylphenol	<0.163	U	20.0	11.13		ug/L		56	35 - 116	3	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61028-H-17-C MSD

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine	<0.220	U F2	20.0	10.23	F2	ug/L		51	29 - 141	40	30
3,3'-Dimethylbenzidine	<0.444	U *- F1	20.0	2.140	J F1	ug/L		11	70 - 130	25	30
3-Methylcholanthrene	<0.159	U F2	20.0	17.21	F2	ug/L		86	20 - 130	38	30
3-Nitroaniline	<0.344	U	20.0	11.09		ug/L		55	42 - 123	10	30
4,6-Dinitro-2-methylphenol	<0.736	U	20.0	15.27		ug/L		76	12 - 157	17	30
4-Aminobiphenyl	<0.297	U F2	20.0	10.32	F2	ug/L		52	20 - 130	37	30
4-Bromophenyl phenyl ether	<0.167	U	20.0	11.47		ug/L		57	40 - 126	3	30
4-Chloro-3-methylphenol	<0.157	U	20.0	12.05		ug/L		60	40 - 119	1	30
4-Chloroaniline	<0.149	U	20.0	9.347		ug/L		47	39 - 111	1	30
4-Chlorophenyl phenyl ether	<0.232	U	20.0	10.95		ug/L		55	40 - 122	1	30
4-Nitroaniline	<0.247	U	20.0	11.80		ug/L		59	42 - 125	24	30
4-Nitroquinoline-1-oxide	<2.15	U F2 F1	20.0	18.81	F2	ug/L		94	70 - 130	43	30
7,12-Dimethylbenz(a)anthracene	<0.0610	U F2	20.0	15.27	F2	ug/L		76	40 - 120	41	30
Acenaphthene	<0.208	U	20.0	11.00		ug/L		55	41 - 118	1	30
Acenaphthylene	<0.215	U	20.0	11.14		ug/L		56	41 - 116	1	30
Acetophenone	<0.225	U	20.0	10.44		ug/L		52	23 - 125	3	30
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	20.0	<4.00	U F1	ug/L		0	70 - 130	NC	
Aniline	<0.314	U	20.0	7.242		ug/L		36	31 - 120	6	30
Anthracene	<0.154	U	20.0	13.14		ug/L		66	39 - 127	11	30
Benzo[a]anthracene	<0.150	U F2	20.0	17.41	F2	ug/L		87	40 - 129	37	30
Benzo[a]pyrene	<0.148	U F2	20.0	18.31	F2	ug/L		92	36 - 141	37	30
Benzo[b]fluoranthene	<0.210	U F2	20.0	16.99	F2	ug/L		85	34 - 139	34	30
Benzo[g,h,i]perylene	<0.143	U F2	20.0	18.44	F2	ug/L		92	32 - 141	39	30
Benzo[k]fluoranthene	<0.166	U F2	20.0	17.73	F2	ug/L		89	31 - 139	36	30
Benzyl alcohol	<4.50	U	20.0	11.36		ug/L		57	37 - 102	2	30
Bis(2-chloroethoxy)methane	<0.170	U	20.0	10.18		ug/L		51	36 - 113	1	30
Bis(2-chloroethyl)ether	<0.278	U	20.0	10.48		ug/L		52	38 - 111	1	30
Bis(2-ethylhexyl) phthalate	<0.225	U F2	20.0	17.88	F2	ug/L		89	44 - 136	40	30
Butyl benzyl phthalate	<0.150	U F2	20.0	19.33	F2	ug/L		97	44 - 133	43	30
Chrysene	<0.159	U F2	20.0	17.12	F2	ug/L		86	41 - 124	38	30
Dibenz(a,h)anthracene	<0.148	U F2	20.0	19.32	F2	ug/L		97	35 - 143	40	30
Dibenzofuran	<0.336	U	20.0	10.82		ug/L		54	41 - 119	1	30
Diethyl phthalate	<0.118	U	20.0	12.16		ug/L		61	41 - 125	6	30
Dimethyl phthalate	<0.143	U	20.0	12.13		ug/L		61	42 - 123	4	30
Di-n-butyl phthalate	<0.800	U F2	20.0	19.37	F2	ug/L		97	41 - 133	38	30
Di-n-octyl phthalate	<0.169	U	20.0	18.79		ug/L		94	34 - 145	30	30
Diphenyl ether	<0.364	U	20.0	9.697		ug/L		48		1	30
Ethyl methanesulfonate	<1.38	U F1	20.0	10.69	F1	ug/L		53	70 - 130	2	30
Fluoranthene	<0.148	U F2	20.0	17.48	F2	ug/L		87	38 - 132	33	30
Fluorene	<0.205	U	20.0	11.21		ug/L		56	41 - 121	1	30
Hexachlorobenzene	<0.126	U	20.0	11.73		ug/L		59	39 - 128	9	30
Hexachlorobutadiene	<0.252	U	20.0	9.441		ug/L		47	31 - 120	0	30
Hexachlorocyclopentadiene	<0.431	U	20.0	11.95		ug/L		60	15 - 117	4	30
Hexachloroethane	<0.140	U	20.0	9.991		ug/L		50	37 - 109	7	30
Hexachloropropene	<0.213	U	20.0	9.306		ug/L		47		1	30
Indeno[1,2,3-cd]pyrene	<0.852	U F2	20.0	19.05	F2	ug/L		95	35 - 141	39	30
Isophorone	<0.168	U	20.0	10.73		ug/L		54	40 - 115	1	30
Methyl methanesulfonate	<0.0610	U F1	20.0	9.710	F1	ug/L		49	70 - 130	5	30

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61028-H-17-C MSD

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	<0.423	U	20.0	10.37		ug/L		52	37 - 113	0	30
Nitrobenzene	<0.934	U	20.0	11.56		ug/L		58	37 - 114	4	30
N-Nitro-o-toluidine	<1.31	U	20.0	12.86		ug/L		64	35 - 130	17	30
N-Nitrosodiethylamine	<1.54	U F1	20.0	11.19	F1	ug/L		56	70 - 130	4	30
N-Nitrosodimethylamine	<0.126	U	20.0	8.922		ug/L		45	28 - 127	2	30
N-Nitrosodi-n-butylamine	<1.54	U	20.0	8.965		ug/L		45	34 - 122	1	30
N-Nitrosodi-n-propylamine	<0.161	U	20.0	10.93		ug/L		55	38 - 117	6	30
N-Nitrosodiphenylamine	<0.155	U	20.0	13.97		ug/L		70	40 - 127	13	30
N-Nitrosomethylethylamine	<0.199	U	20.0	10.93		ug/L		55	28 - 126	2	30
N-Nitrosomorpholine	<1.44	U F1	20.0	11.19	F1	ug/L		56	70 - 130	4	30
N-Nitrosopiperidine	<1.44	U	20.0	10.86		ug/L		54	39 - 115	0	30
N-Nitrosopyrrolidine	<1.38	U	20.0	11.63		ug/L		58	36 - 121	1	30
p-Dimethylamino azobenzene	<0.0579	U F2	20.0	15.55	F2	ug/L		78	38 - 124	41	30
Pentachlorobenzene	<1.18	U	20.0	10.22		ug/L		51	40 - 123	2	30
Pentachloronitrobenzene	<1.27	U	20.0	13.50		ug/L		67	40 - 120	19	30
Pentachlorophenol	<0.441	U	20.0	16.51		ug/L		83	10 - 137	30	30
Phenacetin	<1.32	U F2	20.0	16.88	F2	ug/L		84	20 - 130	36	30
Phenanthrene	<0.176	U	20.0	12.50		ug/L		63	39 - 126	9	30
Phenol	<0.202	U	20.0	8.472		ug/L		42	15 - 106	0	30
p-Phenylene diamine	<10.0	U *- F1	20.0	<10.0	U F1	ug/L		0	1 - 150	NC	50
Pronamide	<1.39	U F2	20.0	18.18	F2	ug/L		91	25 - 120	37	30
Pyrene	<0.159	U F2	20.0	16.29	F2	ug/L		81	40 - 130	35	30
Pyridine	<0.725	U	20.0	4.714		ug/L		24	16 - 135	4	30
Safrole, Total	<0.183	U F1	20.0	10.33	F1	ug/L		52	70 - 130	6	30
Aramite Peak 2	<2.74	U F2	10.0	8.204	F2	ug/L		82		40	30
Isosafrole Peak 1	<2.46	U F1	3.20	<2.46	U F1	ug/L		0	70 - 130	NC	30
Diallate Peak 2	<0.602	U F1	5.20	3.155	J F1	ug/L		61	70 - 130	6	30
Isosafrole Peak 2	<2.12	U F1	16.8	8.522	F1	ug/L		51	70 - 130	1	30
Diallate Peak 1	<0.675	U F1	14.8	9.527	F1	ug/L		64	70 - 130	7	30
Aramite Peak 1	<0.670	U F2	10.0	8.234	F2	ug/L		82		36	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2,4,6-Tribromophenol (Surr)	68		31 - 132
2-Fluorobiphenyl	57		40 - 130
2-Fluorophenol (Surr)	47		21 - 114
Nitrobenzene-d5 (Surr)	62		37 - 130
Phenol-d5 (Surr)	41		16 - 117
p-Terphenyl-d14	103		20 - 141

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

GC/MS VOA

Analysis Batch: 130402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61061-1	CM-05	Total/NA	Water	8260D	
860-61061-2	CM-04	Total/NA	Water	8260D	
860-61061-3	CM-03	Total/NA	Water	8260D	
860-61061-4	CM-02	Total/NA	Water	8260D	
860-61061-5	CM-01	Total/NA	Water	8260D	
860-61061-6	CM-00	Total/NA	Water	8260D	
860-61061-7	TB-04(110823)	Total/NA	Water	8260D	
MB 860-130402/11	Method Blank	Total/NA	Water	8260D	
LCS 860-130402/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-130402/7	Lab Control Sample Dup	Total/NA	Water	8260D	
400-246085-B-4 MS	Matrix Spike	Total/NA	Water	8260D	
400-246085-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 130405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61061-1	CM-05	Total/NA	Water	3511	
860-61061-2	CM-04	Total/NA	Water	3511	
860-61061-3	CM-03	Total/NA	Water	3511	
860-61061-4	CM-02	Total/NA	Water	3511	
860-61061-5	CM-01	Total/NA	Water	3511	
860-61061-6	CM-00	Total/NA	Water	3511	
MB 860-130405/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-130405/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-130405/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
860-61041-C-6-B MS	Matrix Spike	Total/NA	Water	3511	
860-61041-C-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	3511	

Prep Batch: 130871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61061-1	CM-05	Total/NA	Water	3510C	
860-61061-2	CM-04	Total/NA	Water	3510C	
860-61061-3	CM-03	Total/NA	Water	3510C	
860-61061-4	CM-02	Total/NA	Water	3510C	
860-61061-5	CM-01	Total/NA	Water	3510C	
860-61061-6	CM-00	Total/NA	Water	3510C	
MB 860-130871/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-130871/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-130871/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
860-61028-H-17-B MS	Matrix Spike	Total/NA	Water	3510C	
860-61028-H-17-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 131054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-130871/1-A	Method Blank	Total/NA	Water	8270E LL	130871
LCS 860-130871/2-A	Lab Control Sample	Total/NA	Water	8270E LL	130871
LCSD 860-130871/3-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	130871
860-61028-H-17-B MS	Matrix Spike	Total/NA	Water	8270E LL	130871
860-61028-H-17-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270E LL	130871

Eurofins Houston

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

GC/MS Semi VOA

Analysis Batch: 131258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-130405/1-A	Method Blank	Total/NA	Water	8270E	130405
LCS 860-130405/2-A	Lab Control Sample	Total/NA	Water	8270E	130405
LCSD 860-130405/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	130405
860-61041-C-6-B MS	Matrix Spike	Total/NA	Water	8270E	130405
860-61041-C-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270E	130405

Analysis Batch: 131328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61061-2	CM-04	Total/NA	Water	8270E	130405
860-61061-3	CM-03	Total/NA	Water	8270E	130405
860-61061-4	CM-02	Total/NA	Water	8270E	130405
860-61061-5	CM-01	Total/NA	Water	8270E	130405
860-61061-6	CM-00	Total/NA	Water	8270E	130405

Analysis Batch: 131659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61061-1	CM-05	Total/NA	Water	8270E LL	130871
860-61061-2	CM-04	Total/NA	Water	8270E LL	130871
860-61061-3	CM-03	Total/NA	Water	8270E LL	130871
860-61061-4	CM-02	Total/NA	Water	8270E LL	130871
860-61061-5	CM-01	Total/NA	Water	8270E LL	130871
860-61061-6	CM-00	Total/NA	Water	8270E LL	130871

Analysis Batch: 131685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61061-1	CM-05	Total/NA	Water	8270E	130405

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-05

Date Collected: 11/08/23 07:30

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61061-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130402	11/10/23 13:57	TTD	EET HOU
Total/NA	Prep	3511			33.8 mL	2 mL	130405	11/10/23 06:40	TH	EET HOU
Total/NA	Analysis	8270E		20	1 mL	1 mL	131685	11/18/23 07:19	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130871	11/14/23 06:48	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131659	11/17/23 21:17	T1S	EET HOU

Client Sample ID: CM-04

Date Collected: 11/08/23 07:54

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61061-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130402	11/10/23 14:17	TTD	EET HOU
Total/NA	Prep	3511			32.3 mL	2 mL	130405	11/10/23 06:40	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131328	11/16/23 15:11	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130871	11/14/23 06:48	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131659	11/17/23 21:38	T1S	EET HOU

Client Sample ID: CM-03

Date Collected: 11/08/23 08:19

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61061-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130402	11/10/23 14:38	TTD	EET HOU
Total/NA	Prep	3511			33.4 mL	2 mL	130405	11/10/23 06:40	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131328	11/16/23 15:41	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130871	11/14/23 06:48	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131659	11/17/23 21:59	T1S	EET HOU

Client Sample ID: CM-02

Date Collected: 11/08/23 08:43

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61061-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130402	11/10/23 14:58	TTD	EET HOU
Total/NA	Prep	3511			33 mL	2 mL	130405	11/10/23 06:40	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131328	11/16/23 16:12	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130871	11/14/23 06:48	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131659	11/17/23 22:20	T1S	EET HOU

Client Sample ID: CM-01

Date Collected: 11/08/23 09:25

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61061-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130402	11/10/23 15:19	TTD	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Client Sample ID: CM-01

Date Collected: 11/08/23 09:25

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61061-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			33 mL	2 mL	130405	11/10/23 06:41	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131328	11/16/23 16:42	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130871	11/14/23 06:48	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131659	11/17/23 22:41	T1S	EET HOU

Client Sample ID: CM-00

Date Collected: 11/08/23 09:56

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61061-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130402	11/10/23 15:39	TTD	EET HOU
Total/NA	Prep	3511			33 mL	2 mL	130405	11/10/23 06:41	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131328	11/16/23 17:12	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130871	11/14/23 06:48	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131659	11/17/23 23:02	T1S	EET HOU

Client Sample ID: TB-04(110823)

Date Collected: 11/08/23 00:00

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61061-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130402	11/10/23 12:55	TTD	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61061-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-61061-1	CM-05	Water	11/08/23 07:30	11/09/23 09:56
860-61061-2	CM-04	Water	11/08/23 07:54	11/09/23 09:56
860-61061-3	CM-03	Water	11/08/23 08:19	11/09/23 09:56
860-61061-4	CM-02	Water	11/08/23 08:43	11/09/23 09:56
860-61061-5	CM-01	Water	11/08/23 09:25	11/09/23 09:56
860-61061-6	CM-00	Water	11/08/23 09:56	11/09/23 09:56
860-61061-7	TB-04(110823)	Water	11/08/23 00:00	11/09/23 09:56

Client Information		Sampler: <u>Kopek Montoya</u>		Carrier Tracking No(s):		COC No: 860-23558-8445-1	
Client Contact: Mr. Antonio Cardoso		Phone: <u>225-205-8246</u>		State of Origin:		Page: <u>1 of 1</u>	
Company: ARCADIS US Inc		PWSID:		Analysis Requested		Job #:	
Address: 4300 West Cypress Street Suite 450		Due Date Requested:		8270E SIM ID_D5 1,4 Dioxane		Preservation Codes:	
City: Tampa		TAT Requested (days):		8270E LL Appendix 9 SVOCs		A HCL	
State, Zip: FL, 33607		Compliance Project: ☐ Yes ☒ No		8260D Appendix 9 VOCs		B NaOH	
Phone:		PO #:		Perform MS/MSD (Yes or No)		C Zn Acetate	
Email: antonio.cardoso@arcadis.com		WO #:		Field Filled Sample (Yes or No)		D Ilic Acid	
Project Name: Hercules Hattiesburg, MS		Project #:		Sample Date		E MeOH	
Site:		SSOWN#:		Sample Time		F 4H3O4	
				Sample Type (C=Comp, G=Grab)		G Amchlor	
				Preservation Code:		H Ascorbic Acid	
				Matrix (Water, Solid, Organic)		I Ice	
				Sample Date		J DI Water	
				Sample Time		K EDTA	
				Sample Type		L EDA	
				Preservation Code		Other:	
				Sample Date			
				Sample Time			
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				Matrix			
				Sample Date			
				Sample Time			
				Sample Type			
				Preservation Code			
				Matrix			
				Sample Date			
				Sample Time			
				Sample Type			
				Preservation Code			
				Matrix			

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-61061-1

Login Number: 61061

List Number: 1

Creator: Rubio, Yuri

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

ANALYTICAL REPORT

PREPARED FOR

Attn: Timothy Hassett
Ashland LLC
Ashland Hercules Research Center
500 Hercules Rd Bldg 8145
Wilmington, Delaware 19808

Generated 11/29/2023 5:33:33 PM

JOB DESCRIPTION

Hercules Hattiesburg, MS

JOB NUMBER

860-61082-1

Eurofins Houston

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Sachin Kudchadkar, Senior Project Manager
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(281)748-9025

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Definitions/Glossary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Job ID: 860-61082-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-61082-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/9/2023 9:56 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

GC/MS VOA

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 860-130402 recovered outside control limits for the following analytes: Dichlorodifluoromethane.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-130402 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS/LCSD) recovery is within acceptance limits.

Method 8260D: The continuing calibration verification (CCV) associated with batch 860-130402 recovered outside acceptance criteria, low biased, for 1,4-Dioxane (-23.8%), Isobutanol (-23.6%) and 2-Propanol (-30.6%). A low level standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270E_LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-130701 and 860-130968 and analytical batch 860-131106 recovered outside control limits for the following analyte(s): alpha,alpha-Dimethyl phenethylamine, p-Phenylene diamine and 3,3'-Dimethylbenzidine. alpha,alpha-Dimethyl phenethylamine, p-Phenylene diamine and 3,3'-Dimethylbenzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E_LL: The following sample was diluted due to the nature of the sample matrix: MW-5 (860-61082-8). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: The following sample was diluted due to the nature of the sample matrix: MW-3 (860-61082-1). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW-1 (860-61082-4). These results have been reported and qualified.

Method 8270E_QQQ: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-5 (860-61082-8). Elevated reporting limits (RLs) are provided.

Method 8270E_QQQ: The following sample required a dilution due to the nature of the sample matrix: MW-5 (860-61082-8). Because of

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Job ID: 860-61082-1 (Continued)

Laboratory: Eurofins Houston (Continued)

this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E_QQQ: The surrogate recovery for the method blank and laboratory control sample associated with preparation batch 860-130405 and analytical batch 860-131258 was outside the upper control limit for Nitrobenzene-d5.

Method 8270E_QQQ: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-130405 and analytical batch 860-131258 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 8270E_QQQ: Surrogate recovery for the following sample was outside control limits. Sample only needs 1,4-Dioxane and 1,4-Dioxane is under surrogate 2-Fluorophenol; therefore, the sample has reported.

Method 8270E_QQQ: Surrogate recovery for the following samples were outside control limits: MW-3 (860-61082-1) and MW-2 (860-61082-2). Sample only needs 1,4-Dioxane and 1,4-Dioxane is under surrogate 2-Fluorophenol; therefore, the sample has reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-3

Lab Sample ID: 860-61082-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.492	J	0.615	0.162	ug/L	1		8270E	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 860-61082-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diphenyl ether	0.620	J	8.00	0.364	ug/L	1		8270E LL	Total/NA
1,4-Dioxane	0.280	J	0.602	0.158	ug/L	1		8270E	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 860-61082-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1'-Biphenyl	0.908	J	2.00	0.428	ug/L	1		8270E LL	Total/NA
1,4-Dioxane	0.259	J	0.590	0.155	ug/L	1		8270E	Total/NA

Client Sample ID: MW-1

Lab Sample ID: 860-61082-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1'-Biphenyl	0.841	J	2.00	0.428	ug/L	1		8270E LL	Total/NA
2-Methylnaphthalene	1.71	J	2.00	0.480	ug/L	1		8270E LL	Total/NA
Diphenyl ether	2.53	J	8.00	0.364	ug/L	1		8270E LL	Total/NA
Naphthalene	0.597	J	2.00	0.423	ug/L	1		8270E LL	Total/NA

Client Sample ID: TB-02(110223)

Lab Sample ID: 860-61082-5

No Detections.

Client Sample ID: MW-11

Lab Sample ID: 860-61082-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diphenyl ether	0.872	J	8.00	0.364	ug/L	1		8270E LL	Total/NA
1,4-Dioxane	0.172	J	0.593	0.156	ug/L	1		8270E	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 860-61082-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diphenyl ether	1.83	J	8.00	0.364	ug/L	1		8270E LL	Total/NA
o,o',o"-Triethylphosphorothioate	0.221	J	8.00	0.0579	ug/L	1		8270E LL	Total/NA
1,4-Dioxane	3.51		0.583	0.153	ug/L	1		8270E	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 860-61082-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.39	J	100	3.07	ug/L	1		8260D	Total/NA
Diphenyl ether	2.08	J	40.0	1.82	ug/L	5		8270E LL	Total/NA
o,o',o"-Triethylphosphorothioate	12.1	J	40.0	0.290	ug/L	5		8270E LL	Total/NA
1,4-Dioxane	353		11.8	3.09	ug/L	20		8270E	Total/NA

Client Sample ID: RB-01

Lab Sample ID: 860-61082-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-3

Lab Sample ID: 860-61082-1

Date Collected: 11/07/23 13:11

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 23:36	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 23:36	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 23:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 23:36	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 23:36	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 23:36	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 23:36	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 23:36	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 23:36	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 23:36	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 23:36	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 23:36	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 23:36	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 23:36	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 23:36	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 23:36	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 23:36	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 23:36	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 23:36	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 23:36	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 23:36	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 23:36	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 23:36	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 23:36	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 23:36	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 23:36	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 23:36	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 23:36	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 23:36	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 23:36	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 23:36	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 23:36	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 23:36	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 23:36	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 23:36	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 23:36	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 23:36	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 23:36	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 23:36	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 23:36	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 23:36	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 23:36	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 23:36	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/10/23 23:36	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 23:36	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 23:36	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 23:36	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 23:36	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 23:36	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-3

Lab Sample ID: 860-61082-1

Date Collected: 11/07/23 13:11

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 23:36	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 23:36	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 23:36	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 23:36	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 23:36	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 23:36	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 23:36	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 23:36	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 23:36	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 23:36	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 23:36	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 23:36	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 23:36	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 23:36	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 23:36	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 23:36	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 23:36	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 23:36	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 23:36	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 23:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		11/10/23 23:36	1
4-Bromofluorobenzene (Surr)	98		74 - 124		11/10/23 23:36	1
Dibromofluoromethane (Surr)	99		75 - 131		11/10/23 23:36	1
Toluene-d8 (Surr)	98		80 - 120		11/10/23 23:36	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<4.28	U	20.0	4.28	ug/L		11/13/23 09:25	11/16/23 02:11	10
1,2,4,5-Tetrachlorobenzene	<6.72	U	20.0	6.72	ug/L		11/13/23 09:25	11/16/23 02:11	10
1,2,4-Trichlorobenzene	<6.80	U	20.0	6.80	ug/L		11/13/23 09:25	11/16/23 02:11	10
1,2-Dichlorobenzene	<2.96	U	20.0	2.96	ug/L		11/13/23 09:25	11/16/23 02:11	10
1,3,5-Trinitrobenzene	<14.3	U	20.0	14.3	ug/L		11/13/23 09:25	11/16/23 02:11	10
1,3-Dichlorobenzene	<3.50	U	20.0	3.50	ug/L		11/13/23 09:25	11/16/23 02:11	10
1,3-Dinitrobenzene	<1.12	U	20.0	1.12	ug/L		11/13/23 09:25	11/16/23 02:11	10
1,4-Dichlorobenzene	<4.28	U	20.0	4.28	ug/L		11/13/23 09:25	11/16/23 02:11	10
1,4-Naphthoquinone	<18.5	U	80.0	18.5	ug/L		11/13/23 09:25	11/16/23 02:11	10
1-Naphthylamine	<2.32	U	20.0	2.32	ug/L		11/13/23 09:25	11/16/23 02:11	10
2,2'-oxybis[1-chloropropane]	<1.39	U	20.0	1.39	ug/L		11/13/23 09:25	11/16/23 02:11	10
2,3,4,6-Tetrachlorophenol	<1.74	U	20.0	1.74	ug/L		11/13/23 09:25	11/16/23 02:11	10
2,4,5-Trichlorophenol	<1.08	U	20.0	1.08	ug/L		11/13/23 09:25	11/16/23 02:11	10
2,4,6-Trichlorophenol	<1.35	U	20.0	1.35	ug/L		11/13/23 09:25	11/16/23 02:11	10
2,4-Dichlorophenol	<1.15	U	20.0	1.15	ug/L		11/13/23 09:25	11/16/23 02:11	10
2,4-Dimethylphenol	<1.48	U	20.0	1.48	ug/L		11/13/23 09:25	11/16/23 02:11	10
2,4-Dinitrophenol	<14.6	U	80.0	14.6	ug/L		11/13/23 09:25	11/16/23 02:11	10
2,4-Dinitrotoluene	<1.27	U	20.0	1.27	ug/L		11/13/23 09:25	11/16/23 02:11	10
2,6-Dichlorophenol	<1.26	U	20.0	1.26	ug/L		11/13/23 09:25	11/16/23 02:11	10
2,6-Dinitrotoluene	<1.99	U	20.0	1.99	ug/L		11/13/23 09:25	11/16/23 02:11	10
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/13/23 09:25	11/16/23 19:16	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-3

Lab Sample ID: 860-61082-1

Date Collected: 11/07/23 13:11

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<10.9	U	80.0	10.9	ug/L		11/13/23 09:25	11/16/23 02:11	10
2-Chlorophenol	<0.135	U	20.0	0.135	ug/L		11/13/23 09:25	11/16/23 02:11	10
2-Methylnaphthalene	<4.80	U	20.0	4.80	ug/L		11/13/23 09:25	11/16/23 02:11	10
2-Methylphenol	<1.59	U	20.0	1.59	ug/L		11/13/23 09:25	11/16/23 02:11	10
2-Naphthylamine	<5.95	U	80.0	5.95	ug/L		11/13/23 09:25	11/16/23 02:11	10
2-Nitroaniline	<1.63	U	40.0	1.63	ug/L		11/13/23 09:25	11/16/23 02:11	10
2-Nitrophenol	<1.35	U	20.0	1.35	ug/L		11/13/23 09:25	11/16/23 02:11	10
2-Picoline	<2.15	U	20.0	2.15	ug/L		11/13/23 09:25	11/16/23 02:11	10
2-Toluidine	<9.34	U	80.0	9.34	ug/L		11/13/23 09:25	11/16/23 02:11	10
3 & 4 Methylphenol	<1.63	U	20.0	1.63	ug/L		11/13/23 09:25	11/16/23 02:11	10
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/13/23 09:25	11/16/23 19:16	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/13/23 09:25	11/16/23 19:16	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/13/23 09:25	11/16/23 19:16	1
3-Nitroaniline	<3.44	U	20.0	3.44	ug/L		11/13/23 09:25	11/16/23 02:11	10
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/13/23 09:25	11/16/23 19:16	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/13/23 09:25	11/16/23 19:16	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/13/23 09:25	11/16/23 19:16	1
4-Chloro-3-methylphenol	<1.57	U	20.0	1.57	ug/L		11/13/23 09:25	11/16/23 02:11	10
4-Chloroaniline	<1.49	U	40.0	1.49	ug/L		11/13/23 09:25	11/16/23 02:11	10
4-Chlorophenyl phenyl ether	<2.32	U	20.0	2.32	ug/L		11/13/23 09:25	11/16/23 02:11	10
4-Nitroaniline	<2.47	U	40.0	2.47	ug/L		11/13/23 09:25	11/16/23 02:11	10
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/13/23 09:25	11/16/23 19:16	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/13/23 09:25	11/16/23 19:16	1
Acenaphthene	<2.08	U	20.0	2.08	ug/L		11/13/23 09:25	11/16/23 02:11	10
Acenaphthylene	<2.15	U	20.0	2.15	ug/L		11/13/23 09:25	11/16/23 02:11	10
Acetophenone	<2.25	U	40.0	2.25	ug/L		11/13/23 09:25	11/16/23 02:11	10
alpha,alpha-Dimethyl phenethylamine	<40.0	U	40.0	40.0	ug/L		11/13/23 09:25	11/16/23 02:11	10
Aniline	<3.14	U	40.0	3.14	ug/L		11/13/23 09:25	11/16/23 02:11	10
Anthracene	<0.154	U	2.00	0.154	ug/L		11/13/23 09:25	11/16/23 19:16	1
Aramite, Total	<6.70	U	40.0	6.70	ug/L		11/13/23 09:25	11/16/23 02:11	10
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/13/23 09:25	11/16/23 19:16	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/16/23 19:16	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/13/23 09:25	11/16/23 19:16	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/13/23 09:25	11/16/23 19:16	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/13/23 09:25	11/16/23 19:16	1
Benzyl alcohol	<45.0	U	80.0	45.0	ug/L		11/13/23 09:25	11/16/23 02:11	10
Bis(2-chloroethoxy)methane	<1.70	U	20.0	1.70	ug/L		11/13/23 09:25	11/16/23 02:11	10
Bis(2-chloroethyl)ether	<2.78	U	20.0	2.78	ug/L		11/13/23 09:25	11/16/23 02:11	10
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/13/23 09:25	11/16/23 19:16	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/13/23 09:25	11/16/23 19:16	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/13/23 09:25	11/16/23 19:16	1
Diallate	<6.02	U	80.0	6.02	ug/L		11/13/23 09:25	11/16/23 02:11	10
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/16/23 19:16	1
Dibenzofuran	<3.36	U	20.0	3.36	ug/L		11/13/23 09:25	11/16/23 02:11	10
Diethyl phthalate	<1.18	U	20.0	1.18	ug/L		11/13/23 09:25	11/16/23 02:11	10
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/13/23 09:25	11/16/23 19:16	1
Dimethyl phthalate	<1.43	U	20.0	1.43	ug/L		11/13/23 09:25	11/16/23 02:11	10
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/13/23 09:25	11/16/23 19:16	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/13/23 09:25	11/16/23 19:16	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-3

Lab Sample ID: 860-61082-1

Date Collected: 11/07/23 13:11

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/13/23 09:25	11/16/23 19:16	1
Diphenyl ether	<3.64	U	80.0	3.64	ug/L		11/13/23 09:25	11/16/23 02:11	10
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/13/23 09:25	11/16/23 19:16	1
Ethyl methanesulfonate	<13.8	U	40.0	13.8	ug/L		11/13/23 09:25	11/16/23 02:11	10
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/13/23 09:25	11/16/23 19:16	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/13/23 09:25	11/16/23 19:16	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/16/23 19:16	1
Fluorene	<2.05	U	20.0	2.05	ug/L		11/13/23 09:25	11/16/23 02:11	10
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/13/23 09:25	11/16/23 19:16	1
Hexachlorobutadiene	<2.52	U	20.0	2.52	ug/L		11/13/23 09:25	11/16/23 02:11	10
Hexachlorocyclopentadiene	<4.31	U	20.0	4.31	ug/L		11/13/23 09:25	11/16/23 02:11	10
Hexachloroethane	<1.40	U	20.0	1.40	ug/L		11/13/23 09:25	11/16/23 02:11	10
Hexachloropropene	<2.13	U	40.0	2.13	ug/L		11/13/23 09:25	11/16/23 02:11	10
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/13/23 09:25	11/16/23 19:16	1
Isophorone	<1.68	U	20.0	1.68	ug/L		11/13/23 09:25	11/16/23 02:11	10
Isosafrole	<24.6	U	60.0	24.6	ug/L		11/13/23 09:25	11/16/23 02:11	10
Methapyriline	<0.181	U	2.00	0.181	ug/L		11/13/23 09:25	11/16/23 19:16	1
Methyl methanesulfonate	<0.610	U	20.0	0.610	ug/L		11/13/23 09:25	11/16/23 02:11	10
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/13/23 09:25	11/16/23 19:16	1
Naphthalene	<4.23	U	20.0	4.23	ug/L		11/13/23 09:25	11/16/23 02:11	10
Nitrobenzene	<9.34	U	20.0	9.34	ug/L		11/13/23 09:25	11/16/23 02:11	10
N-Nitro-o-toluidine	<13.1	U	80.0	13.1	ug/L		11/13/23 09:25	11/16/23 02:11	10
N-Nitrosodiethylamine	<15.4	U	40.0	15.4	ug/L		11/13/23 09:25	11/16/23 02:11	10
N-Nitrosodimethylamine	<1.26	U	20.0	1.26	ug/L		11/13/23 09:25	11/16/23 02:11	10
N-Nitrosodi-n-butylamine	<15.4	U	20.0	15.4	ug/L		11/13/23 09:25	11/16/23 02:11	10
N-Nitrosodi-n-propylamine	<1.61	U	20.0	1.61	ug/L		11/13/23 09:25	11/16/23 02:11	10
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/13/23 09:25	11/16/23 19:16	1
N-Nitrosomethylethylamine	<1.99	U	20.0	1.99	ug/L		11/13/23 09:25	11/16/23 02:11	10
N-Nitrosomorpholine	<14.4	U	40.0	14.4	ug/L		11/13/23 09:25	11/16/23 02:11	10
N-Nitrosopiperidine	<14.4	U	40.0	14.4	ug/L		11/13/23 09:25	11/16/23 02:11	10
N-Nitrosopyrrolidine	<13.8	U	40.0	13.8	ug/L		11/13/23 09:25	11/16/23 02:11	10
o,o',o"-Triethylphosphorothioate	<0.579	U	80.0	0.579	ug/L		11/13/23 09:25	11/16/23 02:11	10
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/13/23 09:25	11/16/23 19:16	1
Pentachlorobenzene	<11.8	U	20.0	11.8	ug/L		11/13/23 09:25	11/16/23 02:11	10
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/13/23 09:25	11/16/23 19:16	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/13/23 09:25	11/16/23 19:16	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/13/23 09:25	11/16/23 19:16	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/13/23 09:25	11/16/23 19:16	1
Phenol	<2.02	U	40.0	2.02	ug/L		11/13/23 09:25	11/16/23 02:11	10
Phorate	<1.40	U	8.00	1.40	ug/L		11/13/23 09:25	11/16/23 19:16	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/13/23 09:25	11/16/23 19:16	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/13/23 09:25	11/16/23 19:16	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/13/23 09:25	11/16/23 19:16	1
Pyridine	<7.25	U	20.0	7.25	ug/L		11/13/23 09:25	11/16/23 02:11	10
Safrole, Total	<1.83	U	40.0	1.83	ug/L		11/13/23 09:25	11/16/23 02:11	10
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/13/23 09:25	11/16/23 19:16	1
Thionazin	<14.4	U	80.0	14.4	ug/L		11/13/23 09:25	11/16/23 02:11	10
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/13/23 09:25	11/16/23 19:16	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/13/23 09:25	11/16/23 19:16	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-3

Lab Sample ID: 860-61082-1

Date Collected: 11/07/23 13:11

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/13/23 09:25	11/16/23 19:16	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/13/23 09:25	11/16/23 19:16	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/13/23 09:25	11/16/23 19:16	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/13/23 09:25	11/16/23 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	59	*3	31 - 132	11/13/23 09:25	11/16/23 02:11	10
2,4,6-Tribromophenol (Surr)	89		31 - 132	11/13/23 09:25	11/16/23 19:16	1
2-Fluorobiphenyl	91		40 - 130	11/13/23 09:25	11/16/23 02:11	10
2-Fluorobiphenyl	96		40 - 130	11/13/23 09:25	11/16/23 19:16	1
2-Fluorophenol (Surr)	49		21 - 114	11/13/23 09:25	11/16/23 02:11	10
2-Fluorophenol (Surr)	48		21 - 114	11/13/23 09:25	11/16/23 19:16	1
Nitrobenzene-d5 (Surr)	79		37 - 130	11/13/23 09:25	11/16/23 02:11	10
Nitrobenzene-d5 (Surr)	77		37 - 130	11/13/23 09:25	11/16/23 19:16	1
Phenol-d5 (Surr)	30		16 - 117	11/13/23 09:25	11/16/23 02:11	10
Phenol-d5 (Surr)	34		16 - 117	11/13/23 09:25	11/16/23 19:16	1
p-Terphenyl-d14	92	*3	20 - 141	11/13/23 09:25	11/16/23 02:11	10
p-Terphenyl-d14	97		20 - 141	11/13/23 09:25	11/16/23 19:16	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.492	J	0.615	0.162	ug/L		11/10/23 06:41	11/16/23 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	140	S1+	37 - 133	11/10/23 06:41	11/16/23 17:42	1

Client Sample ID: MW-2

Lab Sample ID: 860-61082-2

Date Collected: 11/07/23 14:07

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 23:57	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 23:57	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 23:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 23:57	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 23:57	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 23:57	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 23:57	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 23:57	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 23:57	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 23:57	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 23:57	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 23:57	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 23:57	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 23:57	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 23:57	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 23:57	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 23:57	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 23:57	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 23:57	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-2

Lab Sample ID: 860-61082-2

Date Collected: 11/07/23 14:07

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 23:57	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 23:57	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 23:57	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 23:57	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 23:57	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 23:57	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 23:57	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 23:57	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 23:57	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 23:57	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 23:57	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 23:57	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 23:57	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 23:57	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 23:57	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 23:57	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 23:57	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 23:57	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 23:57	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 23:57	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 23:57	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 23:57	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 23:57	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 23:57	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/10/23 23:57	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 23:57	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 23:57	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 23:57	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 23:57	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 23:57	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 23:57	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 23:57	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 23:57	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 23:57	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 23:57	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 23:57	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 23:57	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 23:57	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 23:57	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 23:57	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 23:57	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 23:57	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 23:57	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 23:57	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 23:57	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 23:57	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 23:57	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 23:57	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 23:57	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-2

Lab Sample ID: 860-61082-2

Date Collected: 11/07/23 14:07

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 23:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144					11/10/23 23:57	1
4-Bromofluorobenzene (Surr)	98		74 - 124					11/10/23 23:57	1
Dibromofluoromethane (Surr)	98		75 - 131					11/10/23 23:57	1
Toluene-d8 (Surr)	99		80 - 120					11/10/23 23:57	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/13/23 09:25	11/15/23 17:32	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/13/23 09:25	11/15/23 17:32	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/13/23 09:25	11/15/23 17:32	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/13/23 09:25	11/15/23 17:32	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/13/23 09:25	11/15/23 17:32	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/13/23 09:25	11/15/23 17:32	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/13/23 09:25	11/15/23 17:32	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/13/23 09:25	11/15/23 17:32	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/13/23 09:25	11/15/23 17:32	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/13/23 09:25	11/15/23 17:32	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/13/23 09:25	11/15/23 17:32	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/13/23 09:25	11/15/23 17:32	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/13/23 09:25	11/15/23 17:32	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/13/23 09:25	11/15/23 17:32	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/13/23 09:25	11/15/23 17:32	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 17:32	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/13/23 09:25	11/15/23 17:32	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/13/23 09:25	11/15/23 17:32	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/13/23 09:25	11/15/23 17:32	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/13/23 09:25	11/15/23 17:32	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/13/23 09:25	11/15/23 17:32	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/13/23 09:25	11/15/23 17:32	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/13/23 09:25	11/15/23 17:32	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/13/23 09:25	11/15/23 17:32	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/13/23 09:25	11/15/23 17:32	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/13/23 09:25	11/15/23 17:32	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/13/23 09:25	11/15/23 17:32	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/13/23 09:25	11/15/23 17:32	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/13/23 09:25	11/15/23 17:32	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/13/23 09:25	11/15/23 17:32	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/13/23 09:25	11/15/23 17:32	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/13/23 09:25	11/15/23 17:32	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/13/23 09:25	11/15/23 17:32	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/13/23 09:25	11/15/23 17:32	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/13/23 09:25	11/15/23 17:32	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/13/23 09:25	11/15/23 17:32	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/13/23 09:25	11/15/23 17:32	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/13/23 09:25	11/15/23 17:32	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/13/23 09:25	11/15/23 17:32	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/13/23 09:25	11/15/23 17:32	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-2

Lab Sample ID: 860-61082-2

Date Collected: 11/07/23 14:07

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/13/23 09:25	11/15/23 17:32	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/13/23 09:25	11/15/23 17:32	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/13/23 09:25	11/15/23 17:32	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/13/23 09:25	11/15/23 17:32	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/13/23 09:25	11/15/23 17:32	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/13/23 09:25	11/15/23 17:32	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/13/23 09:25	11/15/23 17:32	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/13/23 09:25	11/15/23 17:32	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/13/23 09:25	11/15/23 17:32	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/13/23 09:25	11/15/23 17:32	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/13/23 09:25	11/15/23 17:32	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/13/23 09:25	11/15/23 17:32	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 17:32	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/13/23 09:25	11/15/23 17:32	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/13/23 09:25	11/15/23 17:32	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/13/23 09:25	11/15/23 17:32	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/13/23 09:25	11/15/23 17:32	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/13/23 09:25	11/15/23 17:32	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/13/23 09:25	11/15/23 17:32	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/13/23 09:25	11/15/23 17:32	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/13/23 09:25	11/15/23 17:32	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/13/23 09:25	11/15/23 17:32	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/13/23 09:25	11/15/23 17:32	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 17:32	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/13/23 09:25	11/15/23 17:32	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/13/23 09:25	11/15/23 17:32	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/13/23 09:25	11/15/23 17:32	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/13/23 09:25	11/15/23 17:32	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/13/23 09:25	11/15/23 17:32	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/13/23 09:25	11/15/23 17:32	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/13/23 09:25	11/15/23 17:32	1
Diphenyl ether	0.620	J	8.00	0.364	ug/L		11/13/23 09:25	11/15/23 17:32	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/13/23 09:25	11/15/23 17:32	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/13/23 09:25	11/15/23 17:32	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/13/23 09:25	11/15/23 17:32	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/13/23 09:25	11/15/23 17:32	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 17:32	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/13/23 09:25	11/15/23 17:32	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/13/23 09:25	11/15/23 17:32	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/13/23 09:25	11/15/23 17:32	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/13/23 09:25	11/15/23 17:32	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/13/23 09:25	11/15/23 17:32	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/13/23 09:25	11/15/23 17:32	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/13/23 09:25	11/15/23 17:32	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/13/23 09:25	11/15/23 17:32	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/13/23 09:25	11/15/23 17:32	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/13/23 09:25	11/15/23 17:32	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/13/23 09:25	11/15/23 17:32	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/13/23 09:25	11/15/23 17:32	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-2

Lab Sample ID: 860-61082-2

Date Collected: 11/07/23 14:07

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/13/23 09:25	11/15/23 17:32	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/13/23 09:25	11/15/23 17:32	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/13/23 09:25	11/15/23 17:32	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/13/23 09:25	11/15/23 17:32	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/13/23 09:25	11/15/23 17:32	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/13/23 09:25	11/15/23 17:32	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/13/23 09:25	11/15/23 17:32	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/13/23 09:25	11/15/23 17:32	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/13/23 09:25	11/15/23 17:32	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/13/23 09:25	11/15/23 17:32	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/13/23 09:25	11/15/23 17:32	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/13/23 09:25	11/15/23 17:32	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/13/23 09:25	11/15/23 17:32	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/13/23 09:25	11/15/23 17:32	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/13/23 09:25	11/15/23 17:32	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/13/23 09:25	11/15/23 17:32	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/13/23 09:25	11/15/23 17:32	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/13/23 09:25	11/15/23 17:32	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/13/23 09:25	11/15/23 17:32	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/13/23 09:25	11/15/23 17:32	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/13/23 09:25	11/15/23 17:32	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/13/23 09:25	11/15/23 17:32	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/13/23 09:25	11/15/23 17:32	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/13/23 09:25	11/15/23 17:32	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/13/23 09:25	11/15/23 17:32	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/13/23 09:25	11/15/23 17:32	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/13/23 09:25	11/15/23 17:32	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/13/23 09:25	11/15/23 17:32	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/13/23 09:25	11/15/23 17:32	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/13/23 09:25	11/15/23 17:32	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/13/23 09:25	11/15/23 17:32	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/13/23 09:25	11/15/23 17:32	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/13/23 09:25	11/15/23 17:32	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/13/23 09:25	11/15/23 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	66		31 - 132	11/13/23 09:25	11/15/23 17:32	1
2-Fluorobiphenyl	113		40 - 130	11/13/23 09:25	11/15/23 17:32	1
2-Fluorophenol (Surr)	60		21 - 114	11/13/23 09:25	11/15/23 17:32	1
Nitrobenzene-d5 (Surr)	88		37 - 130	11/13/23 09:25	11/15/23 17:32	1
Phenol-d5 (Surr)	42		16 - 117	11/13/23 09:25	11/15/23 17:32	1
p-Terphenyl-d14	95		20 - 141	11/13/23 09:25	11/15/23 17:32	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.280	J	0.602	0.158	ug/L		11/10/23 06:41	11/16/23 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	121		37 - 133	11/10/23 06:41	11/16/23 18:12	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-10

Lab Sample ID: 860-61082-3

Date Collected: 11/07/23 15:01

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/11/23 00:18	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/11/23 00:18	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/11/23 00:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/11/23 00:18	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/11/23 00:18	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/11/23 00:18	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/11/23 00:18	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/11/23 00:18	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/11/23 00:18	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/11/23 00:18	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/11/23 00:18	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/11/23 00:18	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/11/23 00:18	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/11/23 00:18	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/11/23 00:18	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/11/23 00:18	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/11/23 00:18	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/11/23 00:18	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/11/23 00:18	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/11/23 00:18	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/11/23 00:18	1
Acetone	<3.07	U	100	3.07	ug/L			11/11/23 00:18	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/11/23 00:18	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/11/23 00:18	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/11/23 00:18	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/11/23 00:18	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/11/23 00:18	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/11/23 00:18	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/11/23 00:18	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/11/23 00:18	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/11/23 00:18	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/11/23 00:18	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/11/23 00:18	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/11/23 00:18	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/11/23 00:18	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/11/23 00:18	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/11/23 00:18	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/11/23 00:18	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/11/23 00:18	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/11/23 00:18	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/11/23 00:18	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/11/23 00:18	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/11/23 00:18	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/11/23 00:18	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/11/23 00:18	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/11/23 00:18	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/11/23 00:18	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/11/23 00:18	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/11/23 00:18	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-10

Lab Sample ID: 860-61082-3

Date Collected: 11/07/23 15:01

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/11/23 00:18	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/11/23 00:18	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/11/23 00:18	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/11/23 00:18	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/11/23 00:18	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/11/23 00:18	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/11/23 00:18	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/11/23 00:18	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/11/23 00:18	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/11/23 00:18	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/11/23 00:18	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/11/23 00:18	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/11/23 00:18	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/11/23 00:18	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/11/23 00:18	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/11/23 00:18	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/11/23 00:18	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/11/23 00:18	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/11/23 00:18	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/11/23 00:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		11/11/23 00:18	1
4-Bromofluorobenzene (Surr)	97		74 - 124		11/11/23 00:18	1
Dibromofluoromethane (Surr)	99		75 - 131		11/11/23 00:18	1
Toluene-d8 (Surr)	98		80 - 120		11/11/23 00:18	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.908	J	2.00	0.428	ug/L		11/13/23 09:25	11/15/23 17:52	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/13/23 09:25	11/15/23 17:52	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/13/23 09:25	11/15/23 17:52	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/13/23 09:25	11/15/23 17:52	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/13/23 09:25	11/15/23 17:52	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/13/23 09:25	11/15/23 17:52	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/13/23 09:25	11/15/23 17:52	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/13/23 09:25	11/15/23 17:52	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/13/23 09:25	11/15/23 17:52	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/13/23 09:25	11/15/23 17:52	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/13/23 09:25	11/15/23 17:52	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/13/23 09:25	11/15/23 17:52	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/13/23 09:25	11/15/23 17:52	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/13/23 09:25	11/15/23 17:52	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/13/23 09:25	11/15/23 17:52	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 17:52	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/13/23 09:25	11/15/23 17:52	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/13/23 09:25	11/15/23 17:52	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/13/23 09:25	11/15/23 17:52	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/13/23 09:25	11/15/23 17:52	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/13/23 09:25	11/15/23 17:52	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-10

Lab Sample ID: 860-61082-3

Date Collected: 11/07/23 15:01

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/13/23 09:25	11/15/23 17:52	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/13/23 09:25	11/15/23 17:52	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/13/23 09:25	11/15/23 17:52	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/13/23 09:25	11/15/23 17:52	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/13/23 09:25	11/15/23 17:52	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/13/23 09:25	11/15/23 17:52	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/13/23 09:25	11/15/23 17:52	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/13/23 09:25	11/15/23 17:52	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/13/23 09:25	11/15/23 17:52	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/13/23 09:25	11/15/23 17:52	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/13/23 09:25	11/15/23 17:52	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/13/23 09:25	11/15/23 17:52	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/13/23 09:25	11/15/23 17:52	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/13/23 09:25	11/15/23 17:52	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/13/23 09:25	11/15/23 17:52	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/13/23 09:25	11/15/23 17:52	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/13/23 09:25	11/15/23 17:52	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/13/23 09:25	11/15/23 17:52	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/13/23 09:25	11/15/23 17:52	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/13/23 09:25	11/15/23 17:52	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/13/23 09:25	11/15/23 17:52	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/13/23 09:25	11/15/23 17:52	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/13/23 09:25	11/15/23 17:52	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/13/23 09:25	11/15/23 17:52	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/13/23 09:25	11/15/23 17:52	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/13/23 09:25	11/15/23 17:52	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/13/23 09:25	11/15/23 17:52	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/13/23 09:25	11/15/23 17:52	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/13/23 09:25	11/15/23 17:52	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/13/23 09:25	11/15/23 17:52	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/13/23 09:25	11/15/23 17:52	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 17:52	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/13/23 09:25	11/15/23 17:52	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/13/23 09:25	11/15/23 17:52	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/13/23 09:25	11/15/23 17:52	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/13/23 09:25	11/15/23 17:52	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/13/23 09:25	11/15/23 17:52	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/13/23 09:25	11/15/23 17:52	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/13/23 09:25	11/15/23 17:52	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/13/23 09:25	11/15/23 17:52	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/13/23 09:25	11/15/23 17:52	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/13/23 09:25	11/15/23 17:52	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 17:52	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/13/23 09:25	11/15/23 17:52	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/13/23 09:25	11/15/23 17:52	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/13/23 09:25	11/15/23 17:52	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/13/23 09:25	11/15/23 17:52	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/13/23 09:25	11/15/23 17:52	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/13/23 09:25	11/15/23 17:52	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-10

Lab Sample ID: 860-61082-3

Date Collected: 11/07/23 15:01

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/13/23 09:25	11/15/23 17:52	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/13/23 09:25	11/15/23 17:52	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/13/23 09:25	11/15/23 17:52	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/13/23 09:25	11/15/23 17:52	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/13/23 09:25	11/15/23 17:52	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/13/23 09:25	11/15/23 17:52	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 17:52	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/13/23 09:25	11/15/23 17:52	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/13/23 09:25	11/15/23 17:52	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/13/23 09:25	11/15/23 17:52	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/13/23 09:25	11/15/23 17:52	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/13/23 09:25	11/15/23 17:52	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/13/23 09:25	11/15/23 17:52	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/13/23 09:25	11/15/23 17:52	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/13/23 09:25	11/15/23 17:52	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/13/23 09:25	11/15/23 17:52	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/13/23 09:25	11/15/23 17:52	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/13/23 09:25	11/15/23 17:52	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/13/23 09:25	11/15/23 17:52	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/13/23 09:25	11/15/23 17:52	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/13/23 09:25	11/15/23 17:52	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/13/23 09:25	11/15/23 17:52	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/13/23 09:25	11/15/23 17:52	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/13/23 09:25	11/15/23 17:52	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/13/23 09:25	11/15/23 17:52	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/13/23 09:25	11/15/23 17:52	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/13/23 09:25	11/15/23 17:52	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/13/23 09:25	11/15/23 17:52	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/13/23 09:25	11/15/23 17:52	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/13/23 09:25	11/15/23 17:52	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/13/23 09:25	11/15/23 17:52	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/13/23 09:25	11/15/23 17:52	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/13/23 09:25	11/15/23 17:52	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/13/23 09:25	11/15/23 17:52	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/13/23 09:25	11/15/23 17:52	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/13/23 09:25	11/15/23 17:52	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/13/23 09:25	11/15/23 17:52	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/13/23 09:25	11/15/23 17:52	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/13/23 09:25	11/15/23 17:52	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/13/23 09:25	11/15/23 17:52	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/13/23 09:25	11/15/23 17:52	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/13/23 09:25	11/15/23 17:52	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/13/23 09:25	11/15/23 17:52	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/13/23 09:25	11/15/23 17:52	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/13/23 09:25	11/15/23 17:52	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/13/23 09:25	11/15/23 17:52	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/13/23 09:25	11/15/23 17:52	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/13/23 09:25	11/15/23 17:52	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/13/23 09:25	11/15/23 17:52	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-10

Lab Sample ID: 860-61082-3

Date Collected: 11/07/23 15:01

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/13/23 09:25	11/15/23 17:52	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/13/23 09:25	11/15/23 17:52	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/13/23 09:25	11/15/23 17:52	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/13/23 09:25	11/15/23 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		31 - 132	11/13/23 09:25	11/15/23 17:52	1
2-Fluorobiphenyl	106		40 - 130	11/13/23 09:25	11/15/23 17:52	1
2-Fluorophenol (Surr)	62		21 - 114	11/13/23 09:25	11/15/23 17:52	1
Nitrobenzene-d5 (Surr)	89		37 - 130	11/13/23 09:25	11/15/23 17:52	1
Phenol-d5 (Surr)	44		16 - 117	11/13/23 09:25	11/15/23 17:52	1
p-Terphenyl-d14	101		20 - 141	11/13/23 09:25	11/15/23 17:52	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.259	J	0.590	0.155	ug/L		11/10/23 06:42	11/15/23 02:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	108		37 - 133				11/10/23 06:42	11/15/23 02:14	1

Client Sample ID: MW-1

Lab Sample ID: 860-61082-4

Date Collected: 11/07/23 16:18

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 17:01	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 17:01	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 17:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 17:01	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 17:01	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 17:01	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 17:01	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 17:01	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 17:01	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 17:01	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 17:01	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 17:01	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 17:01	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 17:01	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 17:01	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 17:01	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 17:01	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 17:01	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 17:01	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 17:01	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 17:01	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 17:01	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 17:01	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 17:01	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 17:01	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-1

Lab Sample ID: 860-61082-4

Date Collected: 11/07/23 16:18

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 17:01	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 17:01	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 17:01	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 17:01	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 17:01	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 17:01	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 17:01	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 17:01	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 17:01	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 17:01	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 17:01	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 17:01	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 17:01	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 17:01	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 17:01	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 17:01	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 17:01	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 17:01	1
Dichlorodifluoromethane	<0.785	U *1	1.00	0.785	ug/L			11/10/23 17:01	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 17:01	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 17:01	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 17:01	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 17:01	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 17:01	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 17:01	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 17:01	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 17:01	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 17:01	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 17:01	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 17:01	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 17:01	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 17:01	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 17:01	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 17:01	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 17:01	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 17:01	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 17:01	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 17:01	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 17:01	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 17:01	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 17:01	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 17:01	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 17:01	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		11/10/23 17:01	1
4-Bromofluorobenzene (Surr)	98		74 - 124		11/10/23 17:01	1
Dibromofluoromethane (Surr)	98		75 - 131		11/10/23 17:01	1
Toluene-d8 (Surr)	99		80 - 120		11/10/23 17:01	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-1

Lab Sample ID: 860-61082-4

Date Collected: 11/07/23 16:18

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.841	J	2.00	0.428	ug/L		11/13/23 09:25	11/15/23 18:13	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/13/23 09:25	11/15/23 18:13	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/13/23 09:25	11/15/23 18:13	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/13/23 09:25	11/15/23 18:13	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/13/23 09:25	11/15/23 18:13	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/13/23 09:25	11/15/23 18:13	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/13/23 09:25	11/15/23 18:13	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/13/23 09:25	11/15/23 18:13	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/13/23 09:25	11/15/23 18:13	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/13/23 09:25	11/15/23 18:13	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/13/23 09:25	11/15/23 18:13	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/13/23 09:25	11/15/23 18:13	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/13/23 09:25	11/15/23 18:13	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/13/23 09:25	11/15/23 18:13	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/13/23 09:25	11/15/23 18:13	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 18:13	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/13/23 09:25	11/15/23 18:13	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/13/23 09:25	11/15/23 18:13	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/13/23 09:25	11/15/23 18:13	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/13/23 09:25	11/15/23 18:13	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/13/23 09:25	11/15/23 18:13	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/13/23 09:25	11/15/23 18:13	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/13/23 09:25	11/15/23 18:13	1
2-Methylnaphthalene	1.71	J	2.00	0.480	ug/L		11/13/23 09:25	11/15/23 18:13	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/13/23 09:25	11/15/23 18:13	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/13/23 09:25	11/15/23 18:13	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/13/23 09:25	11/15/23 18:13	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/13/23 09:25	11/15/23 18:13	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/13/23 09:25	11/15/23 18:13	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/13/23 09:25	11/15/23 18:13	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/13/23 09:25	11/15/23 18:13	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/13/23 09:25	11/15/23 18:13	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/13/23 09:25	11/15/23 18:13	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/13/23 09:25	11/15/23 18:13	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/13/23 09:25	11/15/23 18:13	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/13/23 09:25	11/15/23 18:13	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/13/23 09:25	11/15/23 18:13	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/13/23 09:25	11/15/23 18:13	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/13/23 09:25	11/15/23 18:13	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/13/23 09:25	11/15/23 18:13	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/13/23 09:25	11/15/23 18:13	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/13/23 09:25	11/15/23 18:13	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/13/23 09:25	11/15/23 18:13	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/13/23 09:25	11/15/23 18:13	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/13/23 09:25	11/15/23 18:13	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/13/23 09:25	11/15/23 18:13	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/13/23 09:25	11/15/23 18:13	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/13/23 09:25	11/15/23 18:13	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/13/23 09:25	11/15/23 18:13	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-1

Lab Sample ID: 860-61082-4

Date Collected: 11/07/23 16:18

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.154	U	2.00	0.154	ug/L		11/13/23 09:25	11/15/23 18:13	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/13/23 09:25	11/15/23 18:13	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/13/23 09:25	11/15/23 18:13	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 18:13	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/13/23 09:25	11/15/23 18:13	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/13/23 09:25	11/15/23 18:13	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/13/23 09:25	11/15/23 18:13	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/13/23 09:25	11/15/23 18:13	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/13/23 09:25	11/15/23 18:13	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/13/23 09:25	11/15/23 18:13	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/13/23 09:25	11/15/23 18:13	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/13/23 09:25	11/15/23 18:13	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/13/23 09:25	11/15/23 18:13	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/13/23 09:25	11/15/23 18:13	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 18:13	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/13/23 09:25	11/15/23 18:13	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/13/23 09:25	11/15/23 18:13	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/13/23 09:25	11/15/23 18:13	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/13/23 09:25	11/15/23 18:13	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/13/23 09:25	11/15/23 18:13	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/13/23 09:25	11/15/23 18:13	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/13/23 09:25	11/15/23 18:13	1
Diphenyl ether	2.53	J	8.00	0.364	ug/L		11/13/23 09:25	11/15/23 18:13	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/13/23 09:25	11/15/23 18:13	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/13/23 09:25	11/15/23 18:13	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/13/23 09:25	11/15/23 18:13	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/13/23 09:25	11/15/23 18:13	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 18:13	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/13/23 09:25	11/15/23 18:13	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/13/23 09:25	11/15/23 18:13	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/13/23 09:25	11/15/23 18:13	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/13/23 09:25	11/15/23 18:13	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/13/23 09:25	11/15/23 18:13	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/13/23 09:25	11/15/23 18:13	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/13/23 09:25	11/15/23 18:13	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/13/23 09:25	11/15/23 18:13	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/13/23 09:25	11/15/23 18:13	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/13/23 09:25	11/15/23 18:13	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/13/23 09:25	11/15/23 18:13	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/13/23 09:25	11/15/23 18:13	1
Naphthalene	0.597	J	2.00	0.423	ug/L		11/13/23 09:25	11/15/23 18:13	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/13/23 09:25	11/15/23 18:13	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/13/23 09:25	11/15/23 18:13	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/13/23 09:25	11/15/23 18:13	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/13/23 09:25	11/15/23 18:13	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/13/23 09:25	11/15/23 18:13	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/13/23 09:25	11/15/23 18:13	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/13/23 09:25	11/15/23 18:13	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/13/23 09:25	11/15/23 18:13	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-1

Lab Sample ID: 860-61082-4

Date Collected: 11/07/23 16:18

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/13/23 09:25	11/15/23 18:13	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/13/23 09:25	11/15/23 18:13	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/13/23 09:25	11/15/23 18:13	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/13/23 09:25	11/15/23 18:13	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/13/23 09:25	11/15/23 18:13	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/13/23 09:25	11/15/23 18:13	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/13/23 09:25	11/15/23 18:13	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/13/23 09:25	11/15/23 18:13	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/13/23 09:25	11/15/23 18:13	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/13/23 09:25	11/15/23 18:13	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/13/23 09:25	11/15/23 18:13	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/13/23 09:25	11/15/23 18:13	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/13/23 09:25	11/15/23 18:13	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/13/23 09:25	11/15/23 18:13	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/13/23 09:25	11/15/23 18:13	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/13/23 09:25	11/15/23 18:13	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/13/23 09:25	11/15/23 18:13	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/13/23 09:25	11/15/23 18:13	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/13/23 09:25	11/15/23 18:13	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/13/23 09:25	11/15/23 18:13	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/13/23 09:25	11/15/23 18:13	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/13/23 09:25	11/15/23 18:13	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/13/23 09:25	11/15/23 18:13	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/13/23 09:25	11/15/23 18:13	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/13/23 09:25	11/15/23 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		31 - 132	11/13/23 09:25	11/15/23 18:13	1
2-Fluorobiphenyl	108		40 - 130	11/13/23 09:25	11/15/23 18:13	1
2-Fluorophenol (Surr)	74		21 - 114	11/13/23 09:25	11/15/23 18:13	1
Nitrobenzene-d5 (Surr)	131	S1+	37 - 130	11/13/23 09:25	11/15/23 18:13	1
Phenol-d5 (Surr)	52		16 - 117	11/13/23 09:25	11/15/23 18:13	1
p-Terphenyl-d14	104		20 - 141	11/13/23 09:25	11/15/23 18:13	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.153	U	0.581	0.153	ug/L		11/10/23 06:42	11/15/23 02:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	98		37 - 133	11/10/23 06:42	11/15/23 02:43	1

Client Sample ID: TB-02(110223)

Lab Sample ID: 860-61082-5

Date Collected: 11/07/23 00:00

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 12:35	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 12:35	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 12:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 12:35	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: TB-02(110223)

Lab Sample ID: 860-61082-5

Date Collected: 11/07/23 00:00

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 12:35	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 12:35	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 12:35	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 12:35	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 12:35	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 12:35	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 12:35	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 12:35	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 12:35	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 12:35	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 12:35	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 12:35	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 12:35	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 12:35	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 12:35	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 12:35	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 12:35	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 12:35	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 12:35	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 12:35	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 12:35	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 12:35	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 12:35	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 12:35	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 12:35	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 12:35	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 12:35	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 12:35	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 12:35	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 12:35	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 12:35	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 12:35	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 12:35	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 12:35	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 12:35	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 12:35	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 12:35	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 12:35	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 12:35	1
Dichlorodifluoromethane	<0.785	U *1	1.00	0.785	ug/L			11/10/23 12:35	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 12:35	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 12:35	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 12:35	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 12:35	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 12:35	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 12:35	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 12:35	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 12:35	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 12:35	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: TB-02(110223)

Lab Sample ID: 860-61082-5

Date Collected: 11/07/23 00:00

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 12:35	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 12:35	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 12:35	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 12:35	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 12:35	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 12:35	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 12:35	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 12:35	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 12:35	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 12:35	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 12:35	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 12:35	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 12:35	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 12:35	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 12:35	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		11/10/23 12:35	1
4-Bromofluorobenzene (Surr)	99		74 - 124		11/10/23 12:35	1
Dibromofluoromethane (Surr)	98		75 - 131		11/10/23 12:35	1
Toluene-d8 (Surr)	99		80 - 120		11/10/23 12:35	1

Client Sample ID: MW-11

Lab Sample ID: 860-61082-6

Date Collected: 11/08/23 12:26

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 17:22	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 17:22	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 17:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 17:22	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 17:22	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 17:22	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 17:22	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 17:22	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 17:22	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 17:22	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 17:22	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 17:22	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 17:22	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 17:22	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 17:22	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 17:22	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 17:22	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 17:22	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 17:22	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 17:22	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 17:22	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-11

Lab Sample ID: 860-61082-6

Date Collected: 11/08/23 12:26

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 17:22	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 17:22	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 17:22	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 17:22	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 17:22	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 17:22	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 17:22	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 17:22	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 17:22	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 17:22	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 17:22	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 17:22	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 17:22	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 17:22	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 17:22	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 17:22	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 17:22	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 17:22	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 17:22	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 17:22	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 17:22	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 17:22	1
Dichlorodifluoromethane	<0.785	U *1	1.00	0.785	ug/L			11/10/23 17:22	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 17:22	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 17:22	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 17:22	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 17:22	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 17:22	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 17:22	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 17:22	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 17:22	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 17:22	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 17:22	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 17:22	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 17:22	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 17:22	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 17:22	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 17:22	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 17:22	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 17:22	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 17:22	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 17:22	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 17:22	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 17:22	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 17:22	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 17:22	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 17:22	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 17:22	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-11

Lab Sample ID: 860-61082-6

Date Collected: 11/08/23 12:26

Matrix: Water

Date Received: 11/09/23 09:56

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 144		11/10/23 17:22	1
4-Bromofluorobenzene (Surr)	98		74 - 124		11/10/23 17:22	1
Dibromofluoromethane (Surr)	97		75 - 131		11/10/23 17:22	1
Toluene-d8 (Surr)	99		80 - 120		11/10/23 17:22	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/14/23 12:29	11/15/23 18:34	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/14/23 12:29	11/15/23 18:34	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/14/23 12:29	11/15/23 18:34	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/14/23 12:29	11/15/23 18:34	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/14/23 12:29	11/15/23 18:34	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/14/23 12:29	11/15/23 18:34	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/14/23 12:29	11/15/23 18:34	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/14/23 12:29	11/15/23 18:34	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/14/23 12:29	11/15/23 18:34	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/14/23 12:29	11/15/23 18:34	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/14/23 12:29	11/15/23 18:34	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/14/23 12:29	11/15/23 18:34	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/14/23 12:29	11/15/23 18:34	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 12:29	11/15/23 18:34	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/14/23 12:29	11/15/23 18:34	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 18:34	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/14/23 12:29	11/15/23 18:34	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/14/23 12:29	11/15/23 18:34	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/14/23 12:29	11/15/23 18:34	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/14/23 12:29	11/15/23 18:34	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/14/23 12:29	11/15/23 18:34	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/14/23 12:29	11/15/23 18:34	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/14/23 12:29	11/15/23 18:34	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/14/23 12:29	11/15/23 18:34	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/14/23 12:29	11/15/23 18:34	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/14/23 12:29	11/15/23 18:34	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/14/23 12:29	11/15/23 18:34	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 12:29	11/15/23 18:34	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/14/23 12:29	11/15/23 18:34	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/14/23 12:29	11/15/23 18:34	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/14/23 12:29	11/15/23 18:34	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/14/23 12:29	11/15/23 18:34	1
3,3'-Dimethylbenzidine	<0.444	U *-	8.00	0.444	ug/L		11/14/23 12:29	11/15/23 18:34	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/14/23 12:29	11/15/23 18:34	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/14/23 12:29	11/15/23 18:34	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/14/23 12:29	11/15/23 18:34	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/14/23 12:29	11/15/23 18:34	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/14/23 12:29	11/15/23 18:34	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/14/23 12:29	11/15/23 18:34	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/14/23 12:29	11/15/23 18:34	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/14/23 12:29	11/15/23 18:34	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/14/23 12:29	11/15/23 18:34	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/14/23 12:29	11/15/23 18:34	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-11

Lab Sample ID: 860-61082-6

Date Collected: 11/08/23 12:26

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/14/23 12:29	11/15/23 18:34	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/14/23 12:29	11/15/23 18:34	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/14/23 12:29	11/15/23 18:34	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/14/23 12:29	11/15/23 18:34	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/14/23 12:29	11/15/23 18:34	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/14/23 12:29	11/15/23 18:34	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/14/23 12:29	11/15/23 18:34	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/14/23 12:29	11/15/23 18:34	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/14/23 12:29	11/15/23 18:34	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 18:34	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/14/23 12:29	11/15/23 18:34	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/14/23 12:29	11/15/23 18:34	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/14/23 12:29	11/15/23 18:34	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/14/23 12:29	11/15/23 18:34	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/14/23 12:29	11/15/23 18:34	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/14/23 12:29	11/15/23 18:34	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/14/23 12:29	11/15/23 18:34	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/14/23 12:29	11/15/23 18:34	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/14/23 12:29	11/15/23 18:34	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/14/23 12:29	11/15/23 18:34	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 18:34	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/14/23 12:29	11/15/23 18:34	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/14/23 12:29	11/15/23 18:34	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/14/23 12:29	11/15/23 18:34	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/14/23 12:29	11/15/23 18:34	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/14/23 12:29	11/15/23 18:34	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/14/23 12:29	11/15/23 18:34	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/14/23 12:29	11/15/23 18:34	1
Diphenyl ether	0.872	J	8.00	0.364	ug/L		11/14/23 12:29	11/15/23 18:34	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/14/23 12:29	11/15/23 18:34	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/14/23 12:29	11/15/23 18:34	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/14/23 12:29	11/15/23 18:34	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/14/23 12:29	11/15/23 18:34	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 18:34	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/14/23 12:29	11/15/23 18:34	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/14/23 12:29	11/15/23 18:34	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/14/23 12:29	11/15/23 18:34	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/14/23 12:29	11/15/23 18:34	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/14/23 12:29	11/15/23 18:34	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/14/23 12:29	11/15/23 18:34	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/14/23 12:29	11/15/23 18:34	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/14/23 12:29	11/15/23 18:34	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/14/23 12:29	11/15/23 18:34	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/14/23 12:29	11/15/23 18:34	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/14/23 12:29	11/15/23 18:34	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/14/23 12:29	11/15/23 18:34	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/14/23 12:29	11/15/23 18:34	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/14/23 12:29	11/15/23 18:34	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/14/23 12:29	11/15/23 18:34	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-11

Lab Sample ID: 860-61082-6

Date Collected: 11/08/23 12:26

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/14/23 12:29	11/15/23 18:34	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/14/23 12:29	11/15/23 18:34	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/14/23 12:29	11/15/23 18:34	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/14/23 12:29	11/15/23 18:34	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/14/23 12:29	11/15/23 18:34	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/14/23 12:29	11/15/23 18:34	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/14/23 12:29	11/15/23 18:34	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/14/23 12:29	11/15/23 18:34	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/14/23 12:29	11/15/23 18:34	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/14/23 12:29	11/15/23 18:34	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/14/23 12:29	11/15/23 18:34	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/14/23 12:29	11/15/23 18:34	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/14/23 12:29	11/15/23 18:34	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/14/23 12:29	11/15/23 18:34	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/14/23 12:29	11/15/23 18:34	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/14/23 12:29	11/15/23 18:34	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/14/23 12:29	11/15/23 18:34	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/14/23 12:29	11/15/23 18:34	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/14/23 12:29	11/15/23 18:34	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/14/23 12:29	11/15/23 18:34	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/14/23 12:29	11/15/23 18:34	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/14/23 12:29	11/15/23 18:34	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/14/23 12:29	11/15/23 18:34	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/14/23 12:29	11/15/23 18:34	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/14/23 12:29	11/15/23 18:34	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/14/23 12:29	11/15/23 18:34	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/14/23 12:29	11/15/23 18:34	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/14/23 12:29	11/15/23 18:34	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/14/23 12:29	11/15/23 18:34	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/14/23 12:29	11/15/23 18:34	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/14/23 12:29	11/15/23 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	53		31 - 132	11/14/23 12:29	11/15/23 18:34	1
2-Fluorobiphenyl	62		40 - 130	11/14/23 12:29	11/15/23 18:34	1
2-Fluorophenol (Surr)	41		21 - 114	11/14/23 12:29	11/15/23 18:34	1
Nitrobenzene-d5 (Surr)	57		37 - 130	11/14/23 12:29	11/15/23 18:34	1
Phenol-d5 (Surr)	30		16 - 117	11/14/23 12:29	11/15/23 18:34	1
p-Terphenyl-d14	67		20 - 141	11/14/23 12:29	11/15/23 18:34	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.172	J	0.593	0.156	ug/L		11/10/23 06:42	11/15/23 03:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	107		37 - 133	11/10/23 06:42	11/15/23 03:13	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-4

Lab Sample ID: 860-61082-7

Date Collected: 11/08/23 14:20

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 17:42	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 17:42	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 17:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 17:42	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 17:42	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 17:42	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 17:42	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 17:42	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 17:42	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 17:42	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 17:42	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 17:42	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 17:42	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 17:42	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 17:42	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 17:42	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 17:42	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 17:42	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 17:42	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 17:42	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 17:42	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 17:42	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 17:42	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 17:42	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 17:42	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 17:42	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 17:42	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 17:42	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 17:42	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 17:42	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 17:42	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 17:42	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 17:42	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 17:42	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 17:42	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 17:42	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 17:42	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 17:42	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 17:42	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 17:42	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 17:42	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 17:42	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 17:42	1
Dichlorodifluoromethane	<0.785	U *1	1.00	0.785	ug/L			11/10/23 17:42	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 17:42	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 17:42	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 17:42	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 17:42	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 17:42	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-4

Lab Sample ID: 860-61082-7

Date Collected: 11/08/23 14:20

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 17:42	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 17:42	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 17:42	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 17:42	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 17:42	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 17:42	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 17:42	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 17:42	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 17:42	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 17:42	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 17:42	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 17:42	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 17:42	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 17:42	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 17:42	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 17:42	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 17:42	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 17:42	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 17:42	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		11/10/23 17:42	1
4-Bromofluorobenzene (Surr)	97		74 - 124		11/10/23 17:42	1
Dibromofluoromethane (Surr)	100		75 - 131		11/10/23 17:42	1
Toluene-d8 (Surr)	99		80 - 120		11/10/23 17:42	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/14/23 12:29	11/15/23 19:16	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/14/23 12:29	11/15/23 19:16	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/14/23 12:29	11/15/23 19:16	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/14/23 12:29	11/15/23 19:16	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/14/23 12:29	11/15/23 19:16	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/14/23 12:29	11/15/23 19:16	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/14/23 12:29	11/15/23 19:16	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/14/23 12:29	11/15/23 19:16	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/14/23 12:29	11/15/23 19:16	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/14/23 12:29	11/15/23 19:16	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/14/23 12:29	11/15/23 19:16	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/14/23 12:29	11/15/23 19:16	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/14/23 12:29	11/15/23 19:16	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 12:29	11/15/23 19:16	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/14/23 12:29	11/15/23 19:16	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 19:16	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/14/23 12:29	11/15/23 19:16	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/14/23 12:29	11/15/23 19:16	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/14/23 12:29	11/15/23 19:16	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/14/23 12:29	11/15/23 19:16	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/14/23 12:29	11/15/23 19:16	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-4

Lab Sample ID: 860-61082-7

Date Collected: 11/08/23 14:20

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/14/23 12:29	11/15/23 19:16	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/14/23 12:29	11/15/23 19:16	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/14/23 12:29	11/15/23 19:16	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/14/23 12:29	11/15/23 19:16	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/14/23 12:29	11/15/23 19:16	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/14/23 12:29	11/15/23 19:16	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 12:29	11/15/23 19:16	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/14/23 12:29	11/15/23 19:16	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/14/23 12:29	11/15/23 19:16	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/14/23 12:29	11/15/23 19:16	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/14/23 12:29	11/15/23 19:16	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/14/23 12:29	11/15/23 19:16	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/14/23 12:29	11/15/23 19:16	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/14/23 12:29	11/15/23 19:16	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/14/23 12:29	11/15/23 19:16	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/14/23 12:29	11/15/23 19:16	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/14/23 12:29	11/15/23 19:16	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/14/23 12:29	11/15/23 19:16	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/14/23 12:29	11/15/23 19:16	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/14/23 12:29	11/15/23 19:16	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/14/23 12:29	11/15/23 19:16	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/14/23 12:29	11/15/23 19:16	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/14/23 12:29	11/15/23 19:16	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/14/23 12:29	11/15/23 19:16	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/14/23 12:29	11/15/23 19:16	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/14/23 12:29	11/15/23 19:16	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/14/23 12:29	11/15/23 19:16	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/14/23 12:29	11/15/23 19:16	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/14/23 12:29	11/15/23 19:16	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/14/23 12:29	11/15/23 19:16	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/14/23 12:29	11/15/23 19:16	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 19:16	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/14/23 12:29	11/15/23 19:16	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/14/23 12:29	11/15/23 19:16	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/14/23 12:29	11/15/23 19:16	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/14/23 12:29	11/15/23 19:16	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/14/23 12:29	11/15/23 19:16	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/14/23 12:29	11/15/23 19:16	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/14/23 12:29	11/15/23 19:16	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/14/23 12:29	11/15/23 19:16	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/14/23 12:29	11/15/23 19:16	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/14/23 12:29	11/15/23 19:16	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 19:16	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/14/23 12:29	11/15/23 19:16	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/14/23 12:29	11/15/23 19:16	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/14/23 12:29	11/15/23 19:16	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/14/23 12:29	11/15/23 19:16	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/14/23 12:29	11/15/23 19:16	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/14/23 12:29	11/15/23 19:16	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-4

Lab Sample ID: 860-61082-7

Date Collected: 11/08/23 14:20

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/14/23 12:29	11/15/23 19:16	1
Diphenyl ether	1.83	J	8.00	0.364	ug/L		11/14/23 12:29	11/15/23 19:16	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/14/23 12:29	11/15/23 19:16	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/14/23 12:29	11/15/23 19:16	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/14/23 12:29	11/15/23 19:16	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/14/23 12:29	11/15/23 19:16	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 19:16	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/14/23 12:29	11/15/23 19:16	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/14/23 12:29	11/15/23 19:16	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/14/23 12:29	11/15/23 19:16	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/14/23 12:29	11/15/23 19:16	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/14/23 12:29	11/15/23 19:16	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/14/23 12:29	11/15/23 19:16	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/14/23 12:29	11/15/23 19:16	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/14/23 12:29	11/15/23 19:16	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/14/23 12:29	11/15/23 19:16	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/14/23 12:29	11/15/23 19:16	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/14/23 12:29	11/15/23 19:16	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/14/23 12:29	11/15/23 19:16	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/14/23 12:29	11/15/23 19:16	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/14/23 12:29	11/15/23 19:16	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/14/23 12:29	11/15/23 19:16	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/14/23 12:29	11/15/23 19:16	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/14/23 12:29	11/15/23 19:16	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/14/23 12:29	11/15/23 19:16	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/14/23 12:29	11/15/23 19:16	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/14/23 12:29	11/15/23 19:16	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/14/23 12:29	11/15/23 19:16	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/14/23 12:29	11/15/23 19:16	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/14/23 12:29	11/15/23 19:16	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/14/23 12:29	11/15/23 19:16	1
o,o',o"-Triethylphosphorothioate	0.221	J	8.00	0.0579	ug/L		11/14/23 12:29	11/15/23 19:16	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/14/23 12:29	11/15/23 19:16	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/14/23 12:29	11/15/23 19:16	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/14/23 12:29	11/15/23 19:16	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/14/23 12:29	11/15/23 19:16	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/14/23 12:29	11/15/23 19:16	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/14/23 12:29	11/15/23 19:16	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/14/23 12:29	11/15/23 19:16	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/14/23 12:29	11/15/23 19:16	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/14/23 12:29	11/15/23 19:16	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/14/23 12:29	11/15/23 19:16	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/14/23 12:29	11/15/23 19:16	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/14/23 12:29	11/15/23 19:16	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/14/23 12:29	11/15/23 19:16	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/14/23 12:29	11/15/23 19:16	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/14/23 12:29	11/15/23 19:16	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/14/23 12:29	11/15/23 19:16	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/14/23 12:29	11/15/23 19:16	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-4

Lab Sample ID: 860-61082-7

Date Collected: 11/08/23 14:20

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/14/23 12:29	11/15/23 19:16	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/14/23 12:29	11/15/23 19:16	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/14/23 12:29	11/15/23 19:16	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/14/23 12:29	11/15/23 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	108		31 - 132	11/14/23 12:29	11/15/23 19:16	1
2-Fluorobiphenyl	98		40 - 130	11/14/23 12:29	11/15/23 19:16	1
2-Fluorophenol (Surr)	66		21 - 114	11/14/23 12:29	11/15/23 19:16	1
Nitrobenzene-d5 (Surr)	105		37 - 130	11/14/23 12:29	11/15/23 19:16	1
Phenol-d5 (Surr)	38		16 - 117	11/14/23 12:29	11/15/23 19:16	1
p-Terphenyl-d14	114		20 - 141	11/14/23 12:29	11/15/23 19:16	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.51		0.583	0.153	ug/L		11/10/23 06:42	11/15/23 03:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	106		37 - 133				11/10/23 06:42	11/15/23 03:43	1

Client Sample ID: MW-5

Lab Sample ID: 860-61082-8

Date Collected: 11/08/23 15:11

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 18:03	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 18:03	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 18:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 18:03	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 18:03	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 18:03	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 18:03	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 18:03	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 18:03	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 18:03	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 18:03	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 18:03	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 18:03	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 18:03	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 18:03	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 18:03	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 18:03	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 18:03	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 18:03	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 18:03	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 18:03	1
Acetone	9.39	J	100	3.07	ug/L			11/10/23 18:03	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 18:03	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 18:03	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 18:03	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-5

Lab Sample ID: 860-61082-8

Date Collected: 11/08/23 15:11

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 18:03	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 18:03	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 18:03	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 18:03	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 18:03	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 18:03	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 18:03	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 18:03	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 18:03	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 18:03	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 18:03	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 18:03	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 18:03	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 18:03	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 18:03	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 18:03	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 18:03	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 18:03	1
Dichlorodifluoromethane	<0.785	U *1	1.00	0.785	ug/L			11/10/23 18:03	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 18:03	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 18:03	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 18:03	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 18:03	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 18:03	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 18:03	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 18:03	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 18:03	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 18:03	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 18:03	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 18:03	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 18:03	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 18:03	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 18:03	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 18:03	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 18:03	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 18:03	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 18:03	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 18:03	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 18:03	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 18:03	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 18:03	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 18:03	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 18:03	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		11/10/23 18:03	1
4-Bromofluorobenzene (Surr)	100		74 - 124		11/10/23 18:03	1
Dibromofluoromethane (Surr)	98		75 - 131		11/10/23 18:03	1
Toluene-d8 (Surr)	98		80 - 120		11/10/23 18:03	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-5

Lab Sample ID: 860-61082-8

Date Collected: 11/08/23 15:11

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<2.14	U	10.0	2.14	ug/L		11/14/23 12:29	11/16/23 22:24	5
1,2,4,5-Tetrachlorobenzene	<3.36	U	10.0	3.36	ug/L		11/14/23 12:29	11/16/23 22:24	5
1,2,4-Trichlorobenzene	<3.40	U	10.0	3.40	ug/L		11/14/23 12:29	11/16/23 22:24	5
1,2-Dichlorobenzene	<1.48	U	10.0	1.48	ug/L		11/14/23 12:29	11/16/23 22:24	5
1,3,5-Trinitrobenzene	<7.15	U	10.0	7.15	ug/L		11/14/23 12:29	11/16/23 22:24	5
1,3-Dichlorobenzene	<1.75	U	10.0	1.75	ug/L		11/14/23 12:29	11/16/23 22:24	5
1,3-Dinitrobenzene	<0.560	U	10.0	0.560	ug/L		11/14/23 12:29	11/16/23 22:24	5
1,4-Dichlorobenzene	<2.14	U	10.0	2.14	ug/L		11/14/23 12:29	11/16/23 22:24	5
1,4-Naphthoquinone	<9.25	U	40.0	9.25	ug/L		11/14/23 12:29	11/16/23 22:24	5
1-Naphthylamine	<1.16	U	10.0	1.16	ug/L		11/14/23 12:29	11/16/23 22:24	5
2,2'-oxybis[1-chloropropane]	<0.695	U	10.0	0.695	ug/L		11/14/23 12:29	11/16/23 22:24	5
2,3,4,6-Tetrachlorophenol	<0.871	U	10.0	0.871	ug/L		11/14/23 12:29	11/16/23 22:24	5
2,4,5-Trichlorophenol	<0.541	U	10.0	0.541	ug/L		11/14/23 12:29	11/16/23 22:24	5
2,4,6-Trichlorophenol	<0.676	U	10.0	0.676	ug/L		11/14/23 12:29	11/16/23 22:24	5
2,4-Dichlorophenol	<0.573	U	10.0	0.573	ug/L		11/14/23 12:29	11/16/23 22:24	5
2,4-Dimethylphenol	<0.738	U	10.0	0.738	ug/L		11/14/23 12:29	11/16/23 22:24	5
2,4-Dinitrophenol	<7.28	U	40.0	7.28	ug/L		11/14/23 12:29	11/16/23 22:24	5
2,4-Dinitrotoluene	<0.635	U	10.0	0.635	ug/L		11/14/23 12:29	11/16/23 22:24	5
2,6-Dichlorophenol	<0.628	U	10.0	0.628	ug/L		11/14/23 12:29	11/16/23 22:24	5
2,6-Dinitrotoluene	<0.993	U	10.0	0.993	ug/L		11/14/23 12:29	11/16/23 22:24	5
2-Acetylaminofluorene	<7.60	U	40.0	7.60	ug/L		11/14/23 12:29	11/16/23 22:24	5
2-Chloronaphthalene	<5.44	U	40.0	5.44	ug/L		11/14/23 12:29	11/16/23 22:24	5
2-Chlorophenol	<0.0676	U	10.0	0.0676	ug/L		11/14/23 12:29	11/16/23 22:24	5
2-Methylnaphthalene	<2.40	U	10.0	2.40	ug/L		11/14/23 12:29	11/16/23 22:24	5
2-Methylphenol	<0.797	U	10.0	0.797	ug/L		11/14/23 12:29	11/16/23 22:24	5
2-Naphthylamine	<2.98	U	40.0	2.98	ug/L		11/14/23 12:29	11/16/23 22:24	5
2-Nitroaniline	<0.814	U	20.0	0.814	ug/L		11/14/23 12:29	11/16/23 22:24	5
2-Nitrophenol	<0.674	U	10.0	0.674	ug/L		11/14/23 12:29	11/16/23 22:24	5
2-Picoline	<1.08	U	10.0	1.08	ug/L		11/14/23 12:29	11/16/23 22:24	5
2-Toluidine	<4.67	U	40.0	4.67	ug/L		11/14/23 12:29	11/16/23 22:24	5
3 & 4 Methylphenol	<0.814	U	10.0	0.814	ug/L		11/14/23 12:29	11/16/23 22:24	5
3,3'-Dichlorobenzidine	<1.10	U	20.0	1.10	ug/L		11/14/23 12:29	11/16/23 22:24	5
3,3'-Dimethylbenzidine	<2.22	U *	40.0	2.22	ug/L		11/14/23 12:29	11/16/23 22:24	5
3-Methylcholanthrene	<0.793	U	40.0	0.793	ug/L		11/14/23 12:29	11/16/23 22:24	5
3-Nitroaniline	<1.72	U	10.0	1.72	ug/L		11/14/23 12:29	11/16/23 22:24	5
4,6-Dinitro-2-methylphenol	<3.68	U	40.0	3.68	ug/L		11/14/23 12:29	11/16/23 22:24	5
4-Aminobiphenyl	<1.48	U	40.0	1.48	ug/L		11/14/23 12:29	11/16/23 22:24	5
4-Bromophenyl phenyl ether	<0.836	U	10.0	0.836	ug/L		11/14/23 12:29	11/16/23 22:24	5
4-Chloro-3-methylphenol	<0.784	U	10.0	0.784	ug/L		11/14/23 12:29	11/16/23 22:24	5
4-Chloroaniline	<0.745	U	20.0	0.745	ug/L		11/14/23 12:29	11/16/23 22:24	5
4-Chlorophenyl phenyl ether	<1.16	U	10.0	1.16	ug/L		11/14/23 12:29	11/16/23 22:24	5
4-Nitroaniline	<1.23	U	20.0	1.23	ug/L		11/14/23 12:29	11/16/23 22:24	5
4-Nitroquinoline-1-oxide	<10.8	U	20.0	10.8	ug/L		11/14/23 12:29	11/16/23 22:24	5
7,12-Dimethylbenz(a)anthracene	<0.305	U	40.0	0.305	ug/L		11/14/23 12:29	11/16/23 22:24	5
Acenaphthene	<1.04	U	10.0	1.04	ug/L		11/14/23 12:29	11/16/23 22:24	5
Acenaphthylene	<1.07	U	10.0	1.07	ug/L		11/14/23 12:29	11/16/23 22:24	5
Acetophenone	<1.12	U	20.0	1.12	ug/L		11/14/23 12:29	11/16/23 22:24	5
alpha,alpha-Dimethyl phenethylamine	<20.0	U	20.0	20.0	ug/L		11/14/23 12:29	11/16/23 22:24	5
Aniline	<1.57	U	20.0	1.57	ug/L		11/14/23 12:29	11/16/23 22:24	5

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-5

Lab Sample ID: 860-61082-8

Date Collected: 11/08/23 15:11

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.769	U	10.0	0.769	ug/L		11/14/23 12:29	11/16/23 22:24	5
Aramite, Total	<3.35	U	20.0	3.35	ug/L		11/14/23 12:29	11/16/23 22:24	5
Benzo[a]anthracene	<0.750	U	10.0	0.750	ug/L		11/14/23 12:29	11/16/23 22:24	5
Benzo[a]pyrene	<0.738	U	10.0	0.738	ug/L		11/14/23 12:29	11/16/23 22:24	5
Benzo[b]fluoranthene	<1.05	U	10.0	1.05	ug/L		11/14/23 12:29	11/16/23 22:24	5
Benzo[g,h,i]perylene	<0.714	U	10.0	0.714	ug/L		11/14/23 12:29	11/16/23 22:24	5
Benzo[k]fluoranthene	<0.831	U	10.0	0.831	ug/L		11/14/23 12:29	11/16/23 22:24	5
Benzyl alcohol	<22.5	U	40.0	22.5	ug/L		11/14/23 12:29	11/16/23 22:24	5
Bis(2-chloroethoxy)methane	<0.850	U	10.0	0.850	ug/L		11/14/23 12:29	11/16/23 22:24	5
Bis(2-chloroethyl)ether	<1.39	U	10.0	1.39	ug/L		11/14/23 12:29	11/16/23 22:24	5
Bis(2-ethylhexyl) phthalate	<1.12	U	10.0	1.12	ug/L		11/14/23 12:29	11/16/23 22:24	5
Butyl benzyl phthalate	<0.750	U	10.0	0.750	ug/L		11/14/23 12:29	11/16/23 22:24	5
Chrysene	<0.797	U	10.0	0.797	ug/L		11/14/23 12:29	11/16/23 22:24	5
Diallate	<3.01	U	40.0	3.01	ug/L		11/14/23 12:29	11/16/23 22:24	5
Dibenz(a,h)anthracene	<0.738	U	10.0	0.738	ug/L		11/14/23 12:29	11/16/23 22:24	5
Dibenzofuran	<1.68	U	10.0	1.68	ug/L		11/14/23 12:29	11/16/23 22:24	5
Diethyl phthalate	<0.589	U	10.0	0.589	ug/L		11/14/23 12:29	11/16/23 22:24	5
Dimethoate	<8.49	U	40.0	8.49	ug/L		11/14/23 12:29	11/16/23 22:24	5
Dimethyl phthalate	<0.713	U	10.0	0.713	ug/L		11/14/23 12:29	11/16/23 22:24	5
Di-n-butyl phthalate	<4.00	U	10.0	4.00	ug/L		11/14/23 12:29	11/16/23 22:24	5
Di-n-octyl phthalate	<0.846	U	10.0	0.846	ug/L		11/14/23 12:29	11/16/23 22:24	5
Dinoseb	<10.0	U	20.0	10.0	ug/L		11/14/23 12:29	11/16/23 22:24	5
Diphenyl ether	2.08	J	40.0	1.82	ug/L		11/14/23 12:29	11/16/23 22:24	5
Disulfoton	<6.96	U	40.0	6.96	ug/L		11/14/23 12:29	11/16/23 22:24	5
Ethyl methanesulfonate	<6.91	U	20.0	6.91	ug/L		11/14/23 12:29	11/16/23 22:24	5
Ethyl Parathion	<7.07	U	20.0	7.07	ug/L		11/14/23 12:29	11/16/23 22:24	5
Famphur	<40.0	U	40.0	40.0	ug/L		11/14/23 12:29	11/16/23 22:24	5
Fluoranthene	<0.738	U	10.0	0.738	ug/L		11/14/23 12:29	11/16/23 22:24	5
Fluorene	<1.03	U	10.0	1.03	ug/L		11/14/23 12:29	11/16/23 22:24	5
Hexachlorobenzene	<0.628	U	10.0	0.628	ug/L		11/14/23 12:29	11/16/23 22:24	5
Hexachlorobutadiene	<1.26	U	10.0	1.26	ug/L		11/14/23 12:29	11/16/23 22:24	5
Hexachlorocyclopentadiene	<2.16	U	10.0	2.16	ug/L		11/14/23 12:29	11/16/23 22:24	5
Hexachloroethane	<0.700	U	10.0	0.700	ug/L		11/14/23 12:29	11/16/23 22:24	5
Hexachloropropene	<1.07	U	20.0	1.07	ug/L		11/14/23 12:29	11/16/23 22:24	5
Indeno[1,2,3-cd]pyrene	<4.26	U	10.0	4.26	ug/L		11/14/23 12:29	11/16/23 22:24	5
Isophorone	<0.840	U	10.0	0.840	ug/L		11/14/23 12:29	11/16/23 22:24	5
Isosafrole	<12.3	U	30.0	12.3	ug/L		11/14/23 12:29	11/16/23 22:24	5
Methapyrilene	<0.905	U	10.0	0.905	ug/L		11/14/23 12:29	11/16/23 22:24	5
Methyl methanesulfonate	<0.305	U	10.0	0.305	ug/L		11/14/23 12:29	11/16/23 22:24	5
Methyl parathion	<8.22	U	20.0	8.22	ug/L		11/14/23 12:29	11/16/23 22:24	5
Naphthalene	<2.11	U	10.0	2.11	ug/L		11/14/23 12:29	11/16/23 22:24	5
Nitrobenzene	<4.67	U	10.0	4.67	ug/L		11/14/23 12:29	11/16/23 22:24	5
N-Nitro-o-toluidine	<6.55	U	40.0	6.55	ug/L		11/14/23 12:29	11/16/23 22:24	5
N-Nitrosodiethylamine	<7.70	U	20.0	7.70	ug/L		11/14/23 12:29	11/16/23 22:24	5
N-Nitrosodimethylamine	<0.628	U	10.0	0.628	ug/L		11/14/23 12:29	11/16/23 22:24	5
N-Nitrosodi-n-butylamine	<7.70	U	10.0	7.70	ug/L		11/14/23 12:29	11/16/23 22:24	5
N-Nitrosodi-n-propylamine	<0.807	U	10.0	0.807	ug/L		11/14/23 12:29	11/16/23 22:24	5
N-Nitrosodiphenylamine	<0.773	U	10.0	0.773	ug/L		11/14/23 12:29	11/16/23 22:24	5
N-Nitrosomethylethylamine	<0.994	U	10.0	0.994	ug/L		11/14/23 12:29	11/16/23 22:24	5

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-5

Lab Sample ID: 860-61082-8

Date Collected: 11/08/23 15:11

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosomorpholine	<7.21	U	20.0	7.21	ug/L		11/14/23 12:29	11/16/23 22:24	5
N-Nitrosopiperidine	<7.20	U	20.0	7.20	ug/L		11/14/23 12:29	11/16/23 22:24	5
N-Nitrosopyrrolidine	<6.90	U	20.0	6.90	ug/L		11/14/23 12:29	11/16/23 22:24	5
o,o',o"-Triethylphosphorothioate	12.1	J	40.0	0.290	ug/L		11/14/23 12:29	11/28/23 14:41	5
p-Dimethylamino azobenzene	<0.290	U	40.0	0.290	ug/L		11/14/23 12:29	11/16/23 22:24	5
Pentachlorobenzene	<5.91	U	10.0	5.91	ug/L		11/14/23 12:29	11/16/23 22:24	5
Pentachloronitrobenzene	<6.33	U	10.0	6.33	ug/L		11/14/23 12:29	11/16/23 22:24	5
Pentachlorophenol	<2.20	U	10.0	2.20	ug/L		11/14/23 12:29	11/16/23 22:24	5
Phenacetin	<6.62	U	40.0	6.62	ug/L		11/14/23 12:29	11/16/23 22:24	5
Phenanthrene	<0.882	U	10.0	0.882	ug/L		11/14/23 12:29	11/16/23 22:24	5
Phenol	<1.01	U	20.0	1.01	ug/L		11/14/23 12:29	11/16/23 22:24	5
Phorate	<6.99	U	40.0	6.99	ug/L		11/14/23 12:29	11/16/23 22:24	5
p-Phenylene diamine	<50.0	U *	50.0	50.0	ug/L		11/14/23 12:29	11/16/23 22:24	5
Pronamide	<6.93	U	20.0	6.93	ug/L		11/14/23 12:29	11/16/23 22:24	5
Pyrene	<0.797	U	10.0	0.797	ug/L		11/14/23 12:29	11/16/23 22:24	5
Pyridine	<3.62	U	10.0	3.62	ug/L		11/14/23 12:29	11/16/23 22:24	5
Safrole, Total	<0.916	U	20.0	0.916	ug/L		11/14/23 12:29	11/16/23 22:24	5
Sulfotepp	<7.16	U	20.0	7.16	ug/L		11/14/23 12:29	11/16/23 22:24	5
Thionazin	<7.18	U	40.0	7.18	ug/L		11/14/23 12:29	11/16/23 22:24	5
Aramite Peak 2	<13.7	U	20.0	13.7	ug/L		11/14/23 12:29	11/16/23 22:24	5
Isosafrole Peak 1	<12.3	U	30.0	12.3	ug/L		11/14/23 12:29	11/16/23 22:24	5
Diallate Peak 2	<3.01	U	40.0	3.01	ug/L		11/14/23 12:29	11/16/23 22:24	5
Isosafrole Peak 2	<10.6	U	30.0	10.6	ug/L		11/14/23 12:29	11/16/23 22:24	5
Diallate Peak 1	<3.37	U	40.0	3.37	ug/L		11/14/23 12:29	11/16/23 22:24	5
Aramite Peak 1	<3.35	U	20.0	3.35	ug/L		11/14/23 12:29	11/16/23 22:24	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		31 - 132	11/14/23 12:29	11/16/23 22:24	5
2,4,6-Tribromophenol (Surr)	72		31 - 132	11/14/23 12:29	11/28/23 14:41	5
2-Fluorobiphenyl	76		40 - 130	11/14/23 12:29	11/16/23 22:24	5
2-Fluorobiphenyl	70		40 - 130	11/14/23 12:29	11/28/23 14:41	5
2-Fluorophenol (Surr)	49		21 - 114	11/14/23 12:29	11/16/23 22:24	5
2-Fluorophenol (Surr)	42		21 - 114	11/14/23 12:29	11/28/23 14:41	5
Nitrobenzene-d5 (Surr)	74		37 - 130	11/14/23 12:29	11/16/23 22:24	5
Nitrobenzene-d5 (Surr)	64		37 - 130	11/14/23 12:29	11/28/23 14:41	5
Phenol-d5 (Surr)	29		16 - 117	11/14/23 12:29	11/16/23 22:24	5
Phenol-d5 (Surr)	21		16 - 117	11/14/23 12:29	11/28/23 14:41	5
p-Terphenyl-d14	82		20 - 141	11/14/23 12:29	11/16/23 22:24	5
p-Terphenyl-d14	95		20 - 141	11/14/23 12:29	11/28/23 14:41	5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	353		11.8	3.09	ug/L		11/10/23 06:42	11/16/23 12:13	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	125		37 - 133				11/10/23 06:42	11/16/23 12:13	20

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: RB-01

Lab Sample ID: 860-61082-9

Date Collected: 11/08/23 15:25

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 13:36	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 13:36	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 13:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 13:36	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 13:36	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 13:36	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 13:36	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 13:36	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 13:36	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 13:36	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 13:36	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 13:36	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 13:36	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 13:36	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 13:36	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 13:36	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 13:36	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 13:36	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 13:36	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 13:36	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 13:36	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 13:36	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 13:36	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 13:36	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 13:36	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 13:36	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 13:36	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 13:36	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 13:36	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 13:36	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 13:36	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 13:36	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 13:36	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 13:36	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 13:36	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 13:36	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 13:36	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 13:36	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 13:36	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 13:36	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 13:36	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 13:36	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 13:36	1
Dichlorodifluoromethane	<0.785	U *1	1.00	0.785	ug/L			11/10/23 13:36	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 13:36	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 13:36	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 13:36	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 13:36	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 13:36	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: RB-01

Lab Sample ID: 860-61082-9

Date Collected: 11/08/23 15:25

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 13:36	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 13:36	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 13:36	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 13:36	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 13:36	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 13:36	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 13:36	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 13:36	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 13:36	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 13:36	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 13:36	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 13:36	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 13:36	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 13:36	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 13:36	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 13:36	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 13:36	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 13:36	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 13:36	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		11/10/23 13:36	1
4-Bromofluorobenzene (Surr)	99		74 - 124		11/10/23 13:36	1
Dibromofluoromethane (Surr)	98		75 - 131		11/10/23 13:36	1
Toluene-d8 (Surr)	99		80 - 120		11/10/23 13:36	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/14/23 12:29	11/15/23 18:55	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/14/23 12:29	11/15/23 18:55	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/14/23 12:29	11/15/23 18:55	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/14/23 12:29	11/15/23 18:55	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/14/23 12:29	11/15/23 18:55	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/14/23 12:29	11/15/23 18:55	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/14/23 12:29	11/15/23 18:55	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/14/23 12:29	11/15/23 18:55	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/14/23 12:29	11/15/23 18:55	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/14/23 12:29	11/15/23 18:55	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/14/23 12:29	11/15/23 18:55	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/14/23 12:29	11/15/23 18:55	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/14/23 12:29	11/15/23 18:55	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 12:29	11/15/23 18:55	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/14/23 12:29	11/15/23 18:55	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 18:55	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/14/23 12:29	11/15/23 18:55	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/14/23 12:29	11/15/23 18:55	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/14/23 12:29	11/15/23 18:55	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/14/23 12:29	11/15/23 18:55	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/14/23 12:29	11/15/23 18:55	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: RB-01

Lab Sample ID: 860-61082-9

Date Collected: 11/08/23 15:25

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/14/23 12:29	11/15/23 18:55	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/14/23 12:29	11/15/23 18:55	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/14/23 12:29	11/15/23 18:55	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/14/23 12:29	11/15/23 18:55	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/14/23 12:29	11/15/23 18:55	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/14/23 12:29	11/15/23 18:55	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 12:29	11/15/23 18:55	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/14/23 12:29	11/15/23 18:55	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/14/23 12:29	11/15/23 18:55	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/14/23 12:29	11/15/23 18:55	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/14/23 12:29	11/15/23 18:55	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/14/23 12:29	11/15/23 18:55	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/14/23 12:29	11/15/23 18:55	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/14/23 12:29	11/15/23 18:55	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/14/23 12:29	11/15/23 18:55	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/14/23 12:29	11/15/23 18:55	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/14/23 12:29	11/15/23 18:55	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/14/23 12:29	11/15/23 18:55	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/14/23 12:29	11/15/23 18:55	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/14/23 12:29	11/15/23 18:55	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/14/23 12:29	11/15/23 18:55	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/14/23 12:29	11/15/23 18:55	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/14/23 12:29	11/15/23 18:55	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/14/23 12:29	11/15/23 18:55	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/14/23 12:29	11/15/23 18:55	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/14/23 12:29	11/15/23 18:55	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/14/23 12:29	11/15/23 18:55	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/14/23 12:29	11/15/23 18:55	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/14/23 12:29	11/15/23 18:55	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/14/23 12:29	11/15/23 18:55	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/14/23 12:29	11/15/23 18:55	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 18:55	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/14/23 12:29	11/15/23 18:55	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/14/23 12:29	11/15/23 18:55	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/14/23 12:29	11/15/23 18:55	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/14/23 12:29	11/15/23 18:55	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/14/23 12:29	11/15/23 18:55	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/14/23 12:29	11/15/23 18:55	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/14/23 12:29	11/15/23 18:55	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/14/23 12:29	11/15/23 18:55	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/14/23 12:29	11/15/23 18:55	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/14/23 12:29	11/15/23 18:55	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 18:55	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/14/23 12:29	11/15/23 18:55	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/14/23 12:29	11/15/23 18:55	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/14/23 12:29	11/15/23 18:55	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/14/23 12:29	11/15/23 18:55	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/14/23 12:29	11/15/23 18:55	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/14/23 12:29	11/15/23 18:55	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: RB-01

Lab Sample ID: 860-61082-9

Date Collected: 11/08/23 15:25

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/14/23 12:29	11/15/23 18:55	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/14/23 12:29	11/15/23 18:55	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/14/23 12:29	11/15/23 18:55	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/14/23 12:29	11/15/23 18:55	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/14/23 12:29	11/15/23 18:55	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/14/23 12:29	11/15/23 18:55	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 18:55	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/14/23 12:29	11/15/23 18:55	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/14/23 12:29	11/15/23 18:55	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/14/23 12:29	11/15/23 18:55	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/14/23 12:29	11/15/23 18:55	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/14/23 12:29	11/15/23 18:55	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/14/23 12:29	11/15/23 18:55	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/14/23 12:29	11/15/23 18:55	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/14/23 12:29	11/15/23 18:55	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/14/23 12:29	11/15/23 18:55	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/14/23 12:29	11/15/23 18:55	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/14/23 12:29	11/15/23 18:55	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/14/23 12:29	11/15/23 18:55	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/14/23 12:29	11/15/23 18:55	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/14/23 12:29	11/15/23 18:55	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/14/23 12:29	11/15/23 18:55	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/14/23 12:29	11/15/23 18:55	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/14/23 12:29	11/15/23 18:55	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/14/23 12:29	11/15/23 18:55	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/14/23 12:29	11/15/23 18:55	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/14/23 12:29	11/15/23 18:55	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/14/23 12:29	11/15/23 18:55	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/14/23 12:29	11/15/23 18:55	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/14/23 12:29	11/15/23 18:55	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/14/23 12:29	11/15/23 18:55	1
o,o',o''-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/14/23 12:29	11/15/23 18:55	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/14/23 12:29	11/15/23 18:55	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/14/23 12:29	11/15/23 18:55	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/14/23 12:29	11/15/23 18:55	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/14/23 12:29	11/15/23 18:55	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/14/23 12:29	11/15/23 18:55	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/14/23 12:29	11/15/23 18:55	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/14/23 12:29	11/15/23 18:55	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/14/23 12:29	11/15/23 18:55	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/14/23 12:29	11/15/23 18:55	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/14/23 12:29	11/15/23 18:55	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/14/23 12:29	11/15/23 18:55	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/14/23 12:29	11/15/23 18:55	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/14/23 12:29	11/15/23 18:55	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/14/23 12:29	11/15/23 18:55	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/14/23 12:29	11/15/23 18:55	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/14/23 12:29	11/15/23 18:55	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/14/23 12:29	11/15/23 18:55	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: RB-01

Lab Sample ID: 860-61082-9

Date Collected: 11/08/23 15:25

Matrix: Water

Date Received: 11/09/23 09:56

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/14/23 12:29	11/15/23 18:55	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/14/23 12:29	11/15/23 18:55	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/14/23 12:29	11/15/23 18:55	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/14/23 12:29	11/15/23 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	58		31 - 132	11/14/23 12:29	11/15/23 18:55	1
2-Fluorobiphenyl	73		40 - 130	11/14/23 12:29	11/15/23 18:55	1
2-Fluorophenol (Surr)	49		21 - 114	11/14/23 12:29	11/15/23 18:55	1
Nitrobenzene-d5 (Surr)	75		37 - 130	11/14/23 12:29	11/15/23 18:55	1
Phenol-d5 (Surr)	36		16 - 117	11/14/23 12:29	11/15/23 18:55	1
p-Terphenyl-d14	86		20 - 141	11/14/23 12:29	11/15/23 18:55	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.152	U	0.580	0.152	ug/L		11/10/23 06:42	11/15/23 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	116		37 - 133	11/10/23 06:42	11/15/23 04:42	1

Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
400-246085-B-4 MS	Matrix Spike	93	98	99	98
400-246085-B-4 MSD	Matrix Spike Duplicate	93	99	98	99
860-61082-1	MW-3	97	98	99	98
860-61082-1 MS	MW-3	92	98	99	98
860-61082-2	MW-2	97	98	98	99
860-61082-3	MW-10	97	97	99	98
860-61082-4	MW-1	97	98	98	99
860-61082-5	TB-02(110223)	98	99	98	99
860-61082-6	MW-11	96	98	97	99
860-61082-7	MW-4	97	97	100	99
860-61082-8	MW-5	99	100	98	98
860-61082-9	RB-01	98	99	98	99
LCS 860-130402/3	Lab Control Sample	94	96	98	97
LCS 860-130579/3	Lab Control Sample	93	97	99	98
LCSD 860-130402/7	Lab Control Sample Dup	91	97	99	97
LCSD 860-130579/4	Lab Control Sample Dup	93	96	99	97
MB 860-130402/11	Method Blank	96	97	98	99
MB 860-130579/9	Method Blank	98	97	99	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	2FP (19-120)	FBP (43-130)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-61041-C-6-B MS	Matrix Spike	150 S1+	81	98	125	53	87
860-61041-C-6-C MSD	Matrix Spike Duplicate	170 S1+	81	99	138 S1+	48	98
860-61082-1	MW-3				140 S1+		
860-61082-2	MW-2				121		
860-61082-3	MW-10				108		
860-61082-4	MW-1				98		
860-61082-6	MW-11				107		
860-61082-7	MW-4				106		
860-61082-8	MW-5				125		
860-61082-9	RB-01				116		
LCS 860-130405/2-A	Lab Control Sample	106	61	122	144 S1+	48	93
LCS 860-130406/2-A	Lab Control Sample	77	37	95	113	28	87
LCSD 860-130405/3-A	Lab Control Sample Dup	110	59	109	127	45	83
LCSD 860-130406/3-A	Lab Control Sample Dup	70	42	84	109	32	83
MB 860-130405/1-A	Method Blank	99	48	124	137 S1+	35	102
MB 860-130406/1-A	Method Blank	78	41	100	113	32	86

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
2FP = 2-Fluorophenol (Surr)

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Surrogate Summary

Client: Ashland LLC
 Project/Site: Hercules Hattiesburg, MS
 FBP = 2-Fluorobiphenyl
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHd14 = p-Terphenyl-d14 (Surr)

Job ID: 860-61082-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (31-132)	FBP (40-130)	2FP (21-114)	NBZ (37-130)	PHL (16-117)	TPHd14 (20-141)
860-61082-1	MW-3	59 *3	91	49	79	30	92 *3
860-61082-1	MW-3	89	96	48	77	34	97
860-61082-2	MW-2	66	113	60	88	42	95
860-61082-3	MW-10	74	106	62	89	44	101
860-61082-4	MW-1	83	108	74	131 S1+	52	104
860-61082-6	MW-11	53	62	41	57	30	67
860-61082-7	MW-4	108	98	66	105	38	114
860-61082-8	MW-5	79	76	49	74	29	82
860-61082-8	MW-5	72	70	42	64	21	95
860-61082-9	RB-01	58	73	49	75	36	86
LCS 860-130701/2-A	Lab Control Sample	77	77	62	81	47	96
LCS 860-130968/2-A	Lab Control Sample	72	72	50	67	41	85
LCSD 860-130701/3-A	Lab Control Sample Dup	83	82	65	87	49	95
LCSD 860-130968/3-A	Lab Control Sample Dup	84	78	59	77	46	96
MB 860-130701/1-A	Method Blank	53	72	49	71	33	99
MB 860-130968/1-A	Method Blank	55	70	51	67	38	101

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHd14 = p-Terphenyl-d14

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-130402/11

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 12:14	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 12:14	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 12:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 12:14	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 12:14	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 12:14	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 12:14	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 12:14	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 12:14	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 12:14	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 12:14	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 12:14	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 12:14	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 12:14	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 12:14	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 12:14	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 12:14	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 12:14	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 12:14	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 12:14	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 12:14	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 12:14	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 12:14	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 12:14	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 12:14	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 12:14	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 12:14	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 12:14	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 12:14	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 12:14	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 12:14	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 12:14	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 12:14	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 12:14	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 12:14	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 12:14	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 12:14	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 12:14	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 12:14	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 12:14	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 12:14	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 12:14	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 12:14	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/10/23 12:14	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 12:14	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 12:14	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 12:14	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 12:14	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130402/11

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 12:14	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 12:14	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 12:14	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 12:14	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 12:14	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 12:14	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 12:14	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 12:14	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 12:14	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 12:14	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 12:14	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 12:14	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 12:14	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 12:14	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 12:14	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 12:14	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 12:14	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 12:14	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 12:14	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 12:14	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 12:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 144		11/10/23 12:14	1
4-Bromofluorobenzene (Surr)	97		74 - 124		11/10/23 12:14	1
Dibromofluoromethane (Surr)	98		75 - 131		11/10/23 12:14	1
Toluene-d8 (Surr)	99		80 - 120		11/10/23 12:14	1

Lab Sample ID: LCS 860-130402/3

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	48.96		ug/L		98	72 - 125
1,1,1-Trichloroethane	50.0	45.59		ug/L		91	70 - 130
1,1,2,2-Tetrachloroethane	50.0	46.77		ug/L		94	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.89		ug/L		106	60 - 140
1,1,2-Trichloroethane	50.0	48.11		ug/L		96	70 - 130
1,1-Dichloroethane	50.0	45.90		ug/L		92	70 - 130
1,1-Dichloroethene	50.0	44.83		ug/L		90	50 - 150
1,2,3-Trichloropropane	50.0	44.38		ug/L		89	75 - 125
1,2,4-Trimethylbenzene	50.0	47.20		ug/L		94	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	48.66		ug/L		97	59 - 125
1,2-Dibromoethane	50.0	49.16		ug/L		98	73 - 125
1,2-Dichloroethane	50.0	47.35		ug/L		95	72 - 130
1,2-Dichloropropane	50.0	47.96		ug/L		96	74 - 125
1,3,5-Trimethylbenzene	50.0	47.67		ug/L		95	60 - 140
1,3-Butadiene	50.0	41.02		ug/L		82	60 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130402/3

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	45.93		ug/L		92	70 - 130
2-Butanone (MEK)	250	212.4		ug/L		85	60 - 140
2-Hexanone (MBK)	250	213.5		ug/L		85	60 - 140
2-Propanol	500	354.2		ug/L		71	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	40.94		ug/L		82	70 - 130
4-Methyl-2-pentanone	250	217.2		ug/L		87	60 - 140
Acetone	250	211.2		ug/L		84	60 - 140
Acetonitrile	500	412.2		ug/L		82	60 - 140
Acrolein	250	210.9		ug/L		84	60 - 140
Acrylonitrile	500	429.3		ug/L		86	60 - 140
alpha-Chlorotoluene	50.0	49.39		ug/L		99	75 - 125
Benzene	50.0	47.62		ug/L		95	75 - 125
Bromodichloromethane	50.0	47.70		ug/L		95	75 - 125
Bromoform	50.0	48.73		ug/L		97	70 - 130
Bromomethane	50.0	45.38		ug/L		91	60 - 140
Carbon disulfide	50.0	42.77		ug/L		86	60 - 140
Carbon tetrachloride	50.0	45.10		ug/L		90	70 - 130
Chlorobenzene	50.0	48.64		ug/L		97	65 - 135
Chlorodibromomethane	50.0	48.32		ug/L		97	73 - 125
Chloroethane	50.0	43.32		ug/L		87	60 - 140
Chloroform	50.0	46.68		ug/L		93	70 - 121
Chloromethane	50.0	36.40		ug/L		73	60 - 140
Chloroprene	50.0	43.71		ug/L		87	70 - 130
cis-1,2-Dichloroethene	50.0	45.94		ug/L		92	75 - 125
cis-1,3-Dichloropropene	50.0	47.83		ug/L		96	74 - 125
Cumene (isopropylbenzene)	50.0	48.21		ug/L		96	75 - 125
Cyclohexane	50.0	45.48		ug/L		91	70 - 130
Dibromomethane	50.0	48.99		ug/L		98	69 - 127
Dichlorodifluoromethane	50.0	32.98		ug/L		66	50 - 150
Ethyl methacrylate	50.0	46.41		ug/L		93	70 - 130
Ethylbenzene	50.0	47.63		ug/L		95	75 - 125
Hexane	50.0	48.36		ug/L		97	72 - 125
Iodomethane	50.0	53.52		ug/L		107	75 - 125
Isobutanol	1240	1010		ug/L		81	60 - 140
Methacrylonitrile	500	455.9		ug/L		91	70 - 130
Methyl methacrylate	100	93.62		ug/L		94	70 - 130
Methyl tert-butyl ether	50.0	44.28		ug/L		89	65 - 135
Methylene Chloride	50.0	46.99		ug/L		94	71 - 125
Propionitrile	500	434.7		ug/L		87	70 - 130
Propylbenzene	50.0	48.15		ug/L		96	75 - 125
Styrene	50.0	48.80		ug/L		98	75 - 125
Tetrachloroethene	50.0	49.83		ug/L		100	71 - 125
Tetrahydrofuran	100	90.02		ug/L		90	75 - 125
Toluene	50.0	47.64		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	48.11		ug/L		96	75 - 125
trans-1,3-Dichloropropene	50.0	47.20		ug/L		94	66 - 125
trans-1,4-Dichloro-2-butene	50.0	44.84		ug/L		90	70 - 130
Trichloroethene	50.0	50.88		ug/L		102	75 - 135
Trichlorofluoromethane	50.0	49.04		ug/L		98	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130402/3

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	214.6		ug/L		86	60 - 140
Vinyl chloride	50.0	41.64		ug/L		83	60 - 140
Xylenes, Total	100	94.48		ug/L		94	75 - 125
o-Xylene	50.0	47.00		ug/L		94	75 - 125
m,p-Xylenes	50.0	47.48		ug/L		95	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		63 - 144
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: LCSD 860-130402/7

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	50.17		ug/L		100	72 - 125	2	25
1,1,1-Trichloroethane	50.0	48.58		ug/L		97	70 - 130	6	25
1,1,2,2-Tetrachloroethane	50.0	48.46		ug/L		97	74 - 125	4	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.80		ug/L		118	60 - 140	11	25
1,1,2-Trichloroethane	50.0	49.16		ug/L		98	70 - 130	2	25
1,1-Dichloroethane	50.0	48.86		ug/L		98	70 - 130	6	25
1,1-Dichloroethene	50.0	49.52		ug/L		99	50 - 150	10	25
1,2,3-Trichloropropane	50.0	46.56		ug/L		93	75 - 125	5	25
1,2,4-Trimethylbenzene	50.0	48.79		ug/L		98	75 - 125	3	25
1,2-Dibromo-3-Chloropropane	50.0	52.27		ug/L		105	59 - 125	7	25
1,2-Dibromoethane	50.0	50.37		ug/L		101	73 - 125	2	25
1,2-Dichloroethane	50.0	48.32		ug/L		97	72 - 130	2	25
1,2-Dichloropropane	50.0	48.27		ug/L		97	74 - 125	1	25
1,3,5-Trimethylbenzene	50.0	49.10		ug/L		98	60 - 140	3	25
1,3-Butadiene	50.0	48.98		ug/L		98	60 - 150	18	25
2,2,4-Trimethylpentane	50.0	50.05		ug/L		100	70 - 130	9	25
2-Butanone (MEK)	250	221.7		ug/L		89	60 - 140	4	25
2-Hexanone (MBK)	250	218.1		ug/L		87	60 - 140	2	25
2-Propanol	500	414.8		ug/L		83	70 - 120	16	25
3-Chloropropene (Allyl Chloride)	50.0	43.89		ug/L		88	70 - 130	7	25
4-Methyl-2-pentanone	250	222.0		ug/L		89	60 - 140	2	25
Acetone	250	215.1		ug/L		86	60 - 140	2	25
Acetonitrile	500	440.5		ug/L		88	60 - 140	7	25
Acrolein	250	224.8		ug/L		90	60 - 140	6	25
Acrylonitrile	500	456.5		ug/L		91	60 - 140	6	25
alpha-Chlorotoluene	50.0	50.84		ug/L		102	75 - 125	3	25
Benzene	50.0	49.24		ug/L		98	75 - 125	3	25
Bromodichloromethane	50.0	48.68		ug/L		97	75 - 125	2	25
Bromoform	50.0	50.16		ug/L		100	70 - 130	3	25
Bromomethane	50.0	52.68		ug/L		105	60 - 140	15	25
Carbon disulfide	50.0	49.05		ug/L		98	60 - 140	14	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130402/7

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	47.56		ug/L		95	70 - 130	5	25
Chlorobenzene	50.0	49.94		ug/L		100	65 - 135	3	25
Chlorodibromomethane	50.0	49.52		ug/L		99	73 - 125	2	25
Chloroethane	50.0	47.06		ug/L		94	60 - 140	8	25
Chloroform	50.0	49.30		ug/L		99	70 - 121	5	25
Chloromethane	50.0	46.36		ug/L		93	60 - 140	24	25
Chloroprene	50.0	47.24		ug/L		94	70 - 130	8	25
cis-1,2-Dichloroethene	50.0	48.96		ug/L		98	75 - 125	6	25
cis-1,3-Dichloropropene	50.0	49.56		ug/L		99	74 - 125	4	25
Cumene (isopropylbenzene)	50.0	48.95		ug/L		98	75 - 125	2	25
Cyclohexane	50.0	49.33		ug/L		99	70 - 130	8	25
Dibromomethane	50.0	50.64		ug/L		101	69 - 127	3	25
Dichlorodifluoromethane	50.0	55.04	*1	ug/L		110	50 - 150	50	25
Ethyl methacrylate	50.0	47.58		ug/L		95	70 - 130	2	25
Ethylbenzene	50.0	48.84		ug/L		98	75 - 125	3	25
Hexane	50.0	53.62		ug/L		107	72 - 125	10	25
Iodomethane	50.0	60.08		ug/L		120	75 - 125	12	25
Isobutanol	1240	1085		ug/L		88	60 - 140	7	25
Methacrylonitrile	500	481.2		ug/L		96	70 - 130	5	25
Methyl methacrylate	100	96.19		ug/L		96	70 - 130	3	25
Methyl tert-butyl ether	50.0	47.02		ug/L		94	65 - 135	6	25
Methylene Chloride	50.0	51.11		ug/L		102	71 - 125	8	25
Propionitrile	500	467.2		ug/L		93	70 - 130	7	25
Propylbenzene	50.0	48.70		ug/L		97	75 - 125	1	25
Styrene	50.0	49.65		ug/L		99	75 - 125	2	25
Tetrachloroethene	50.0	51.15		ug/L		102	71 - 125	3	25
Tetrahydrofuran	100	96.40		ug/L		96	75 - 125	7	25
Toluene	50.0	48.95		ug/L		98	70 - 130	3	25
trans-1,2-Dichloroethene	50.0	51.70		ug/L		103	75 - 125	7	25
trans-1,3-Dichloropropene	50.0	48.75		ug/L		97	66 - 125	3	25
trans-1,4-Dichloro-2-butene	50.0	47.14		ug/L		94	70 - 130	5	25
Trichloroethene	50.0	52.03		ug/L		104	75 - 135	2	25
Trichlorofluoromethane	50.0	55.18		ug/L		110	60 - 140	12	25
Vinyl acetate	250	226.6		ug/L		91	60 - 140	5	25
Vinyl chloride	50.0	50.69		ug/L		101	60 - 140	20	25
Xylenes, Total	100	97.01		ug/L		97	75 - 125	3	25
o-Xylene	50.0	48.31		ug/L		97	75 - 125	3	25
m,p-Xylenes	50.0	48.70		ug/L		97	75 - 125	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	91		63 - 144
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	97		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-246085-B-4 MS

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	49.00		ug/L		98	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	43.42		ug/L		87	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	50.15		ug/L		100	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	44.92		ug/L		90	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	48.53		ug/L		97	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	45.47		ug/L		91	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	40.63		ug/L		81	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	48.16		ug/L		96	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	48.53		ug/L		97	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	53.91		ug/L		108	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	49.86		ug/L		100	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	47.70		ug/L		95	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	48.01		ug/L		96	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	48.13		ug/L		96	70 - 125
1,3-Butadiene	<0.568	U	50.0	35.93		ug/L		72	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	38.72		ug/L		77	70 - 130
2-Butanone (MEK)	<8.28	U	250	220.2		ug/L		88	60 - 140
2-Hexanone (MBK)	<7.45	U	250	218.0		ug/L		87	60 - 140
2-Propanol	<5.23	U	500	385.5		ug/L		77	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	41.17		ug/L		82	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	222.5		ug/L		89	60 - 140
Acetone	<3.07	U	250	204.0		ug/L		82	60 - 140
Acetonitrile	<14.6	U	500	419.0		ug/L		84	60 - 140
Acrolein	<11.1	U	250	210.3		ug/L		84	50 - 150
Acrylonitrile	<14.3	U	500	437.7		ug/L		88	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	52.14		ug/L		104	70 - 130
Benzene	0.464	J	50.0	46.93		ug/L		93	66 - 142
Bromodichloromethane	<0.552	U	50.0	47.71		ug/L		95	75 - 125
Bromoform	<0.633	U	50.0	49.77		ug/L		100	75 - 125
Bromomethane	<1.42	U	50.0	43.89		ug/L		88	60 - 140
Carbon disulfide	<1.65	U	50.0	41.49		ug/L		83	60 - 140
Carbon tetrachloride	<0.896	U	50.0	41.25		ug/L		83	62 - 125
Chlorobenzene	<0.455	U	50.0	48.63		ug/L		97	60 - 133
Chlorodibromomethane	<0.547	U	50.0	49.35		ug/L		99	73 - 125
Chloroethane	<1.98	U	50.0	40.42		ug/L		81	60 - 140
Chloroform	<0.464	U	50.0	46.64		ug/L		93	70 - 130
Chloromethane	<2.04	U	50.0	35.24		ug/L		70	60 - 140
Chloroprene	<0.598	U	50.0	41.15		ug/L		82	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	45.74		ug/L		91	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	48.76		ug/L		98	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	46.22		ug/L		92	75 - 125
Cyclohexane	<1.29	U	50.0	40.05		ug/L		80	70 - 130
Dibromomethane	<0.357	U	50.0	50.34		ug/L		101	69 - 127
Dichlorodifluoromethane	<0.785	U F1 *1	50.0	27.09	F1	ug/L		54	70 - 130
Ethyl methacrylate	<1.12	U	50.0	47.72		ug/L		95	70 - 130
Ethylbenzene	<0.385	U	50.0	46.52		ug/L		93	75 - 125
Hexane	<0.517	U	50.0	38.52		ug/L		77	72 - 125
Iodomethane	<6.52	U	50.0	53.70		ug/L		107	75 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-246085-B-4 MS

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier			Limits	
Isobutanol	<17.1	U	1240	1063		ug/L		86	60 - 140
Methacrylonitrile	<2.72	U	500	463.9		ug/L		93	70 - 130
Methyl methacrylate	<2.25	U	100	94.87		ug/L		95	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	46.50		ug/L		93	65 - 135
Methylene Chloride	<1.73	U	50.0	45.32		ug/L		91	75 - 125
Propionitrile	<3.34	U	500	449.4		ug/L		90	70 - 130
Propylbenzene	<0.429	U	50.0	46.62		ug/L		93	75 - 125
Styrene	<0.619	U	50.0	48.44		ug/L		97	75 - 125
Tetrachloroethene	<0.655	U	50.0	46.96		ug/L		94	71 - 125
Tetrahydrofuran	<1.83	U	100	92.37		ug/L		92	75 - 125
Toluene	<0.475	U	50.0	46.57		ug/L		93	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	46.06		ug/L		92	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	48.14		ug/L		96	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	48.01		ug/L		96	70 - 130
Trichloroethene	<0.791	U	50.0	48.07		ug/L		96	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	42.95		ug/L		86	60 - 140
Vinyl acetate	<2.14	U	250	221.1		ug/L		88	60 - 140
Vinyl chloride	<0.428	U	50.0	37.24		ug/L		74	60 - 140
Xylenes, Total	<1.24	U	100	92.77		ug/L		93	75 - 125
o-Xylene	<0.502	U	50.0	46.49		ug/L		93	75 - 125
m,p-Xylenes	<1.24	U	50.0	46.28		ug/L		93	75 - 125
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	93		63 - 144						
4-Bromofluorobenzene (Surr)	98		74 - 124						
Dibromofluoromethane (Surr)	99		75 - 131						
Toluene-d8 (Surr)	98		80 - 120						

Lab Sample ID: 400-246085-B-4 MSD

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	46.76		ug/L		94	72 - 125	5	25
1,1,1-Trichloroethane	<0.585	U	50.0	41.13		ug/L		82	75 - 125	5	25
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	47.48		ug/L		95	74 - 125	5	25
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	41.69		ug/L		83	60 - 140	7	25
1,1,2-Trichloroethane	<0.411	U	50.0	46.35		ug/L		93	75 - 127	5	25
1,1-Dichloroethane	<0.635	U	50.0	42.52		ug/L		85	72 - 125	7	25
1,1-Dichloroethene	<0.738	U	50.0	39.46		ug/L		79	59 - 172	3	25
1,2,3-Trichloropropane	<0.470	U	50.0	47.60		ug/L		95	75 - 125	1	25
1,2,4-Trimethylbenzene	<0.417	U	50.0	46.34		ug/L		93	75 - 125	5	25
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	50.30		ug/L		101	59 - 125	7	25
1,2-Dibromoethane	<0.999	U	50.0	47.40		ug/L		95	73 - 125	5	25
1,2-Dichloroethane	<0.372	U	50.0	44.79		ug/L		90	68 - 127	6	25
1,2-Dichloropropane	<0.556	U	50.0	44.96		ug/L		90	74 - 125	7	25
1,3,5-Trimethylbenzene	<0.411	U	50.0	46.27		ug/L		93	70 - 125	4	25
1,3-Butadiene	<0.568	U	50.0	35.09		ug/L		70	70 - 150	2	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-246085-B-4 MSD

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,2,4-Trimethylpentane	<0.500	U	50.0	35.82		ug/L		72	70 - 130	8	25
2-Butanone (MEK)	<8.28	U	250	204.8		ug/L		82	60 - 140	7	25
2-Hexanone (MBK)	<7.45	U	250	203.8		ug/L		82	60 - 140	7	25
2-Propanol	<5.23	U	500	367.3		ug/L		73	70 - 120	5	25
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	38.47		ug/L		77	70 - 130	7	25
4-Methyl-2-pentanone	<7.49	U	250	206.4		ug/L		83	60 - 140	8	25
Acetone	<3.07	U	250	188.7		ug/L		75	60 - 140	8	25
Acetonitrile	<14.6	U	500	384.1		ug/L		77	60 - 140	9	25
Acrolein	<11.1	U	250	201.1		ug/L		80	50 - 150	4	25
Acrylonitrile	<14.3	U	500	406.7		ug/L		81	50 - 150	7	25
alpha-Chlorotoluene	<2.26	U	50.0	49.12		ug/L		98	70 - 130	6	25
Benzene	0.464	J	50.0	44.52		ug/L		88	66 - 142	5	25
Bromodichloromethane	<0.552	U	50.0	44.41		ug/L		89	75 - 125	7	25
Bromoform	<0.633	U	50.0	46.75		ug/L		94	75 - 125	6	25
Bromomethane	<1.42	U	50.0	42.49		ug/L		85	60 - 140	3	25
Carbon disulfide	<1.65	U	50.0	38.57		ug/L		77	60 - 140	7	25
Carbon tetrachloride	<0.896	U	50.0	39.78		ug/L		80	62 - 125	4	25
Chlorobenzene	<0.455	U	50.0	46.16		ug/L		92	60 - 133	5	25
Chlorodibromomethane	<0.547	U	50.0	46.33		ug/L		93	73 - 125	6	25
Chloroethane	<1.98	U	50.0	39.13		ug/L		78	60 - 140	3	25
Chloroform	<0.464	U	50.0	43.71		ug/L		87	70 - 130	6	25
Chloromethane	<2.04	U	50.0	32.78		ug/L		66	60 - 140	7	25
Chloroprene	<0.598	U	50.0	38.59		ug/L		77	70 - 130	6	25
cis-1,2-Dichloroethene	<0.457	U	50.0	42.76		ug/L		86	75 - 125	7	25
cis-1,3-Dichloropropene	<1.07	U	50.0	46.10		ug/L		92	74 - 125	6	25
Cumene (isopropylbenzene)	<0.592	U	50.0	44.20		ug/L		88	75 - 125	4	25
Cyclohexane	<1.29	U	50.0	38.33		ug/L		77	70 - 130	4	25
Dibromomethane	<0.357	U	50.0	46.69		ug/L		93	69 - 127	8	25
Dichlorodifluoromethane	<0.785	U F1 *1	50.0	26.12	F1	ug/L		52	70 - 130	4	25
Ethyl methacrylate	<1.12	U	50.0	45.09		ug/L		90	70 - 130	6	25
Ethylbenzene	<0.385	U	50.0	44.51		ug/L		89	75 - 125	4	25
Hexane	<0.517	U	50.0	35.93		ug/L		72	72 - 125	7	25
Iodomethane	<6.52	U	50.0	49.87		ug/L		100	75 - 125	7	25
Isobutanol	<17.1	U	1240	1008		ug/L		81	60 - 140	5	25
Methacrylonitrile	<2.72	U	500	429.3		ug/L		86	70 - 130	8	25
Methyl methacrylate	<2.25	U	100	89.03		ug/L		89	70 - 130	6	25
Methyl tert-butyl ether	<1.39	U	50.0	43.47		ug/L		87	65 - 135	7	25
Methylene Chloride	<1.73	U	50.0	42.61		ug/L		85	75 - 125	6	25
Propionitrile	<3.34	U	500	416.0		ug/L		83	70 - 130	8	25
Propylbenzene	<0.429	U	50.0	45.70		ug/L		91	75 - 125	2	25
Styrene	<0.619	U	50.0	46.47		ug/L		93	75 - 125	4	25
Tetrachloroethene	<0.655	U	50.0	45.37		ug/L		91	71 - 125	3	25
Tetrahydrofuran	<1.83	U	100	83.33		ug/L		83	75 - 125	10	25
Toluene	<0.475	U	50.0	44.68		ug/L		89	59 - 139	4	25
trans-1,2-Dichloroethene	<0.368	U	50.0	42.48		ug/L		85	75 - 125	8	25
trans-1,3-Dichloropropene	<1.27	U	50.0	45.63		ug/L		91	66 - 125	5	25
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	45.75		ug/L		91	70 - 130	5	25
Trichloroethene	<0.791	U	50.0	46.13		ug/L		92	62 - 137	4	25
Trichlorofluoromethane	<0.560	U	50.0	41.43		ug/L		83	60 - 140	4	25

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-246085-B-4 MSD

Matrix: Water

Analysis Batch: 130402

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl acetate	<2.14	U	250	204.6		ug/L		82	60 - 140	8	25
Vinyl chloride	<0.428	U	50.0	36.59		ug/L		73	60 - 140	2	25
Xylenes, Total	<1.24	U	100	88.80		ug/L		89	75 - 125	4	25
o-Xylene	<0.502	U	50.0	44.62		ug/L		89	75 - 125	4	25
m,p-Xylenes	<1.24	U	50.0	44.18		ug/L		88	75 - 125	5	25

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: MB 860-130579/9

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 22:14	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 22:14	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 22:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 22:14	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 22:14	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 22:14	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 22:14	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 22:14	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 22:14	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 22:14	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 22:14	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 22:14	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 22:14	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 22:14	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 22:14	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 22:14	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 22:14	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 22:14	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 22:14	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 22:14	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 22:14	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 22:14	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 22:14	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 22:14	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 22:14	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 22:14	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 22:14	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 22:14	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 22:14	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 22:14	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 22:14	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130579/9

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 22:14	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 22:14	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 22:14	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 22:14	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 22:14	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 22:14	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 22:14	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 22:14	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 22:14	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 22:14	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 22:14	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 22:14	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/10/23 22:14	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 22:14	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 22:14	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 22:14	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 22:14	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 22:14	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 22:14	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 22:14	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 22:14	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 22:14	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 22:14	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 22:14	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 22:14	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 22:14	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 22:14	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 22:14	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 22:14	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 22:14	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 22:14	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 22:14	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 22:14	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 22:14	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 22:14	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 22:14	1
o-Xylene	<0.502	U	1.00	0.502	ug/L			11/10/23 22:14	1
m,p-Xylenes	<1.24	U	10.0	1.24	ug/L			11/10/23 22:14	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144					11/10/23 22:14	1
4-Bromofluorobenzene (Surr)	97		74 - 124					11/10/23 22:14	1
Dibromofluoromethane (Surr)	99		75 - 131					11/10/23 22:14	1
Toluene-d8 (Surr)	98		80 - 120					11/10/23 22:14	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130579/3

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	48.65		ug/L		97	72 - 125
1,1,1-Trichloroethane	50.0	46.86		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.33		ug/L		99	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.50		ug/L		107	60 - 140
1,1,2-Trichloroethane	50.0	48.76		ug/L		98	70 - 130
1,1-Dichloroethane	50.0	46.80		ug/L		94	70 - 130
1,1-Dichloroethene	50.0	47.10		ug/L		94	50 - 150
1,2,3-Trichloropropane	50.0	46.94		ug/L		94	75 - 125
1,2,4-Trimethylbenzene	50.0	48.26		ug/L		97	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	52.80		ug/L		106	59 - 125
1,2-Dibromoethane	50.0	50.28		ug/L		101	73 - 125
1,2-Dichloroethane	50.0	47.19		ug/L		94	72 - 130
1,2-Dichloropropane	50.0	47.74		ug/L		95	74 - 125
1,3,5-Trimethylbenzene	50.0	48.24		ug/L		96	60 - 140
1,3-Butadiene	50.0	47.80		ug/L		96	60 - 150
2,2,4-Trimethylpentane	50.0	49.00		ug/L		98	70 - 130
2-Butanone (MEK)	250	233.1		ug/L		93	60 - 140
2-Hexanone (MBK)	250	227.2		ug/L		91	60 - 140
2-Propanol	500	408.9		ug/L		82	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	40.64		ug/L		81	70 - 130
4-Methyl-2-pentanone	250	227.6		ug/L		91	60 - 140
Acetone	250	225.8		ug/L		90	60 - 140
Acetonitrile	500	408.0		ug/L		82	60 - 140
Acrolein	250	220.7		ug/L		88	60 - 140
Acrylonitrile	500	457.2		ug/L		91	60 - 140
alpha-Chlorotoluene	50.0	50.66		ug/L		101	75 - 125
Benzene	50.0	47.20		ug/L		94	75 - 125
Bromodichloromethane	50.0	47.19		ug/L		94	75 - 125
Bromoform	50.0	49.77		ug/L		100	70 - 130
Bromomethane	50.0	50.86		ug/L		102	60 - 140
Carbon disulfide	50.0	45.99		ug/L		92	60 - 140
Carbon tetrachloride	50.0	45.91		ug/L		92	70 - 130
Chlorobenzene	50.0	48.71		ug/L		97	65 - 135
Chlorodibromomethane	50.0	48.88		ug/L		98	73 - 125
Chloroethane	50.0	43.14		ug/L		86	60 - 140
Chloroform	50.0	47.24		ug/L		94	70 - 121
Chloromethane	50.0	45.41		ug/L		91	60 - 140
Chloroprene	50.0	44.47		ug/L		89	70 - 130
cis-1,2-Dichloroethene	50.0	46.49		ug/L		93	75 - 125
cis-1,3-Dichloropropene	50.0	48.00		ug/L		96	74 - 125
Cumene (isopropylbenzene)	50.0	48.07		ug/L		96	75 - 125
Cyclohexane	50.0	47.24		ug/L		94	70 - 130
Dibromomethane	50.0	50.28		ug/L		101	69 - 127
Dichlorodifluoromethane	50.0	51.28		ug/L		103	50 - 150
Ethyl methacrylate	50.0	47.73		ug/L		95	70 - 130
Ethylbenzene	50.0	47.36		ug/L		95	75 - 125
Hexane	50.0	48.61		ug/L		97	72 - 125
Iodomethane	50.0	52.40		ug/L		105	75 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130579/3

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isobutanol	1240	1110		ug/L		90	60 - 140
Methacrylonitrile	500	480.0		ug/L		96	70 - 130
Methyl methacrylate	100	96.51		ug/L		97	70 - 130
Methyl tert-butyl ether	50.0	46.62		ug/L		93	65 - 135
Methylene Chloride	50.0	46.54		ug/L		93	71 - 125
Propionitrile	500	471.9		ug/L		94	70 - 130
Propylbenzene	50.0	49.26		ug/L		99	75 - 125
Styrene	50.0	48.32		ug/L		97	75 - 125
Tetrachloroethene	50.0	49.63		ug/L		99	71 - 125
Tetrahydrofuran	100	96.66		ug/L		97	75 - 125
Toluene	50.0	47.68		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	48.28		ug/L		97	75 - 125
trans-1,3-Dichloropropene	50.0	47.43		ug/L		95	66 - 125
trans-1,4-Dichloro-2-butene	50.0	47.25		ug/L		94	70 - 130
Trichloroethene	50.0	50.58		ug/L		101	75 - 135
Trichlorofluoromethane	50.0	52.50		ug/L		105	60 - 140
Vinyl acetate	250	224.0		ug/L		90	60 - 140
Vinyl chloride	50.0	48.22		ug/L		96	60 - 140
Xylenes, Total	100	94.18		ug/L		94	75 - 125
o-Xylene	50.0	47.00		ug/L		94	75 - 125
m,p-Xylenes	50.0	47.18		ug/L		94	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 860-130579/4

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	45.49		ug/L		91	72 - 125	7	25
1,1,1-Trichloroethane	50.0	42.64		ug/L		85	70 - 130	9	25
1,1,2,2-Tetrachloroethane	50.0	45.34		ug/L		91	74 - 125	8	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.17		ug/L		102	60 - 140	4	25
1,1,2-Trichloroethane	50.0	46.49		ug/L		93	70 - 130	5	25
1,1-Dichloroethane	50.0	43.45		ug/L		87	70 - 130	7	25
1,1-Dichloroethene	50.0	43.24		ug/L		86	50 - 150	9	25
1,2,3-Trichloropropane	50.0	43.02		ug/L		86	75 - 125	9	25
1,2,4-Trimethylbenzene	50.0	43.54		ug/L		87	75 - 125	10	25
1,2-Dibromo-3-Chloropropane	50.0	49.31		ug/L		99	59 - 125	7	25
1,2-Dibromoethane	50.0	47.45		ug/L		95	73 - 125	6	25
1,2-Dichloroethane	50.0	45.40		ug/L		91	72 - 130	4	25
1,2-Dichloropropane	50.0	45.35		ug/L		91	74 - 125	5	25
1,3,5-Trimethylbenzene	50.0	43.63		ug/L		87	60 - 140	10	25
1,3-Butadiene	50.0	42.76		ug/L		86	60 - 150	11	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130579/4

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,2,4-Trimethylpentane	50.0	44.88		ug/L		90	70 - 130	9	25
2-Butanone (MEK)	250	217.3		ug/L		87	60 - 140	7	25
2-Hexanone (MBK)	250	209.4		ug/L		84	60 - 140	8	25
2-Propanol	500	394.8		ug/L		79	70 - 120	4	25
3-Chloropropene (Allyl Chloride)	50.0	38.10		ug/L		76	70 - 130	6	25
4-Methyl-2-pentanone	250	213.6		ug/L		85	60 - 140	6	25
Acetone	250	209.7		ug/L		84	60 - 140	7	25
Acetonitrile	500	382.5		ug/L		76	60 - 140	6	25
Acrolein	250	204.6		ug/L		82	60 - 140	8	25
Acrylonitrile	500	433.4		ug/L		87	60 - 140	5	25
alpha-Chlorotoluene	50.0	44.02		ug/L		88	75 - 125	14	25
Benzene	50.0	44.56		ug/L		89	75 - 125	6	25
Bromodichloromethane	50.0	44.73		ug/L		89	75 - 125	5	25
Bromoform	50.0	46.64		ug/L		93	70 - 130	7	25
Bromomethane	50.0	47.97		ug/L		96	60 - 140	6	25
Carbon disulfide	50.0	42.64		ug/L		85	60 - 140	8	25
Carbon tetrachloride	50.0	42.20		ug/L		84	70 - 130	8	25
Chlorobenzene	50.0	45.02		ug/L		90	65 - 135	8	25
Chlorodibromomethane	50.0	45.97		ug/L		92	73 - 125	6	25
Chloroethane	50.0	41.49		ug/L		83	60 - 140	4	25
Chloroform	50.0	44.61		ug/L		89	70 - 121	6	25
Chloromethane	50.0	42.48		ug/L		85	60 - 140	7	25
Chloroprene	50.0	41.37		ug/L		83	70 - 130	7	25
cis-1,2-Dichloroethene	50.0	43.19		ug/L		86	75 - 125	7	25
cis-1,3-Dichloropropene	50.0	45.17		ug/L		90	74 - 125	6	25
Cumene (isopropylbenzene)	50.0	44.11		ug/L		88	75 - 125	9	25
Cyclohexane	50.0	43.11		ug/L		86	70 - 130	9	25
Dibromomethane	50.0	47.92		ug/L		96	69 - 127	5	25
Dichlorodifluoromethane	50.0	45.91		ug/L		92	50 - 150	11	25
Ethyl methacrylate	50.0	44.77		ug/L		90	70 - 130	6	25
Ethylbenzene	50.0	43.84		ug/L		88	75 - 125	8	25
Hexane	50.0	45.41		ug/L		91	72 - 125	7	25
Iodomethane	50.0	49.86		ug/L		100	75 - 125	5	25
Isobutanol	1240	1074		ug/L		87	60 - 140	3	25
Methacrylonitrile	500	451.2		ug/L		90	70 - 130	6	25
Methyl methacrylate	100	90.80		ug/L		91	70 - 130	6	25
Methyl tert-butyl ether	50.0	44.56		ug/L		89	65 - 135	5	25
Methylene Chloride	50.0	45.51		ug/L		91	71 - 125	2	25
Propionitrile	500	441.0		ug/L		88	70 - 130	7	25
Propylbenzene	50.0	43.43		ug/L		87	75 - 125	13	25
Styrene	50.0	44.56		ug/L		89	75 - 125	8	25
Tetrachloroethene	50.0	45.96		ug/L		92	71 - 125	8	25
Tetrahydrofuran	100	85.17		ug/L		85	75 - 125	13	25
Toluene	50.0	43.86		ug/L		88	70 - 130	8	25
trans-1,2-Dichloroethene	50.0	45.26		ug/L		91	75 - 125	6	25
trans-1,3-Dichloropropene	50.0	44.57		ug/L		89	66 - 125	6	25
trans-1,4-Dichloro-2-butene	50.0	42.92		ug/L		86	70 - 130	10	25
Trichloroethene	50.0	47.27		ug/L		95	75 - 135	7	25
Trichlorofluoromethane	50.0	46.02		ug/L		92	60 - 140	13	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130579/4

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl acetate	250	191.7		ug/L		77	60 - 140	16	25
Vinyl chloride	50.0	44.16		ug/L		88	60 - 140	9	25
Xylenes, Total	100	86.66		ug/L		87	75 - 125	8	25
o-Xylene	50.0	43.37		ug/L		87	75 - 125	8	25
m,p-Xylenes	50.0	43.29		ug/L		87	75 - 125	9	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: 860-61082-1 MS

Matrix: Water

Analysis Batch: 130579

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	48.58		ug/L		97	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	45.52		ug/L		91	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	49.83		ug/L		100	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	52.28		ug/L		105	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	48.62		ug/L		97	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	46.23		ug/L		92	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	45.66		ug/L		91	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	45.32		ug/L		91	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	48.02		ug/L		96	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	52.95		ug/L		106	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	49.57		ug/L		99	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	46.44		ug/L		93	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	46.74		ug/L		93	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	47.79		ug/L		96	70 - 125
1,3-Butadiene	<0.568	U	50.0	48.14		ug/L		96	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	46.68		ug/L		93	70 - 130
2-Butanone (MEK)	<8.28	U	250	224.7		ug/L		90	60 - 140
2-Hexanone (MBK)	<7.45	U	250	223.1		ug/L		89	60 - 140
2-Propanol	<5.23	U	500	414.8		ug/L		83	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	39.37		ug/L		79	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	222.2		ug/L		89	60 - 140
Acetone	<3.07	U	250	204.7		ug/L		82	60 - 140
Acetonitrile	<14.6	U	500	395.2		ug/L		79	60 - 140
Acrolein	<11.1	U	250	219.4		ug/L		88	50 - 150
Acrylonitrile	<14.3	U	500	449.3		ug/L		90	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	51.29		ug/L		103	70 - 130
Benzene	<0.460	U	50.0	46.75		ug/L		94	66 - 142
Bromodichloromethane	<0.552	U	50.0	47.04		ug/L		94	75 - 125
Bromoform	<0.633	U	50.0	49.08		ug/L		98	75 - 125
Bromomethane	<1.42	U	50.0	50.38		ug/L		101	60 - 140
Carbon disulfide	<1.65	U	50.0	44.26		ug/L		89	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61082-1 MS

Matrix: Water

Analysis Batch: 130579

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	<0.896	U	50.0	43.77		ug/L		88	62 - 125
Chlorobenzene	<0.455	U	50.0	48.23		ug/L		96	60 - 133
Chlorodibromomethane	<0.547	U	50.0	48.28		ug/L		97	73 - 125
Chloroethane	<1.98	U	50.0	43.04		ug/L		86	60 - 140
Chloroform	<0.464	U	50.0	46.53		ug/L		93	70 - 130
Chloromethane	<2.04	U	50.0	43.59		ug/L		87	60 - 140
Chloroprene	<0.598	U	50.0	43.28		ug/L		87	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	45.28		ug/L		91	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	47.48		ug/L		95	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	47.01		ug/L		94	75 - 125
Cyclohexane	<1.29	U	50.0	45.09		ug/L		90	70 - 130
Dibromomethane	<0.357	U	50.0	49.20		ug/L		98	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	47.58		ug/L		95	70 - 130
Ethyl methacrylate	<1.12	U	50.0	47.01		ug/L		94	70 - 130
Ethylbenzene	<0.385	U	50.0	47.14		ug/L		94	75 - 125
Hexane	<0.517	U	50.0	46.93		ug/L		94	72 - 125
Iodomethane	<6.52	U	50.0	53.43		ug/L		107	75 - 125
Isobutanol	<17.1	U	1240	1136		ug/L		92	60 - 140
Methacrylonitrile	<2.72	U	500	468.3		ug/L		94	70 - 130
Methyl methacrylate	<2.25	U	100	95.05		ug/L		95	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	45.66		ug/L		91	65 - 135
Methylene Chloride	<1.73	U	50.0	44.89		ug/L		90	75 - 125
Propionitrile	<3.34	U	500	462.6		ug/L		93	70 - 130
Propylbenzene	<0.429	U	50.0	47.74		ug/L		95	75 - 125
Styrene	<0.619	U	50.0	48.02		ug/L		96	75 - 125
Tetrachloroethene	<0.655	U	50.0	49.02		ug/L		98	71 - 125
Tetrahydrofuran	<1.83	U	100	89.22		ug/L		89	75 - 125
Toluene	<0.475	U	50.0	47.15		ug/L		94	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	46.40		ug/L		93	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	46.97		ug/L		94	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	41.43		ug/L		83	70 - 130
Trichloroethene	<0.791	U	50.0	48.90		ug/L		98	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	51.52		ug/L		103	60 - 140
Vinyl acetate	<2.14	U	250	218.1		ug/L		87	60 - 140
Vinyl chloride	<0.428	U	50.0	47.35		ug/L		95	60 - 140
Xylenes, Total	<1.24	U	100	93.52		ug/L		94	75 - 125
o-Xylene	<0.502	U	50.0	46.68		ug/L		93	75 - 125
m,p-Xylenes	<1.24	U	50.0	46.84		ug/L		94	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	98		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-130405/1-A

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.150	U	0.571	0.150	ug/L		11/10/23 06:40	11/15/23 18:59	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	137	S1+	37 - 133				11/10/23 06:40	11/15/23 18:59	1

Lab Sample ID: LCS 860-130405/2-A

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.86	0.9155		ug/L		32	27 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2,4,6-Tribromophenol (Surr)	106		35 - 130				
2-Fluorophenol (Surr)	61		19 - 120				
2-Fluorobiphenyl	122		43 - 130				
Nitrobenzene-d5 (Surr)	144	S1+	37 - 133				
Phenol-d5 (Surr)	48		8 - 124				
p-Terphenyl-d14 (Surr)	93		47 - 130				

Lab Sample ID: LCSD 860-130405/3-A

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130405

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.86	0.9367		ug/L		33	27 - 130	2	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	110		35 - 130						
2-Fluorophenol (Surr)	59		19 - 120						
2-Fluorobiphenyl	109		43 - 130						
Nitrobenzene-d5 (Surr)	127		37 - 133						
Phenol-d5 (Surr)	45		8 - 124						
p-Terphenyl-d14 (Surr)	83		47 - 130						

Lab Sample ID: 860-61041-C-6-B MS

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 130405

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	12.7	F1	3.18	12.05	F1	ug/L		-19	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	150	S1+	35 - 130						
2-Fluorophenol (Surr)	81		19 - 120						
2-Fluorobiphenyl	98		43 - 130						
Nitrobenzene-d5 (Surr)	125		37 - 133						

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-61041-C-6-B MS

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 130405

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Phenol-d5 (Surr)	53		8 - 124
p-Terphenyl-d14 (Surr)	87		47 - 130

Lab Sample ID: 860-61041-C-6-C MSD

Matrix: Water

Analysis Batch: 131258

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 130405

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	12.7	F1	3.17	11.32	F1	ug/L		-43	70 - 130	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	170	S1+	35 - 130
2-Fluorophenol (Surr)	81		19 - 120
2-Fluorobiphenyl	99		43 - 130
Nitrobenzene-d5 (Surr)	138	S1+	37 - 133
Phenol-d5 (Surr)	48		8 - 124
p-Terphenyl-d14 (Surr)	98		47 - 130

Lab Sample ID: MB 860-130406/1-A

Matrix: Water

Analysis Batch: 131059

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130406

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.150	U	0.571	0.150	ug/L		11/10/23 06:42	11/15/23 00:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	113		37 - 133	11/10/23 06:42	11/15/23 00:45	1

Lab Sample ID: LCS 860-130406/2-A

Matrix: Water

Analysis Batch: 131059

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.86	0.8070		ug/L		28	27 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	77		35 - 130
2-Fluorophenol (Surr)	37		19 - 120
2-Fluorobiphenyl	95		43 - 130
Nitrobenzene-d5 (Surr)	113		37 - 133
Phenol-d5 (Surr)	28		8 - 124
p-Terphenyl-d14 (Surr)	87		47 - 130

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-130406/3-A

Matrix: Water

Analysis Batch: 131059

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130406

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.91	0.8182		ug/L		28	27 - 130	1	30
Surrogate									
	%Recovery	Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	70		35 - 130						
2-Fluorophenol (Surr)	42		19 - 120						
2-Fluorobiphenyl	84		43 - 130						
Nitrobenzene-d5 (Surr)	109		37 - 133						
Phenol-d5 (Surr)	32		8 - 124						
p-Terphenyl-d14 (Surr)	83		47 - 130						

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 860-130701/1-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/13/23 09:25	11/15/23 11:44	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/13/23 09:25	11/15/23 11:44	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/13/23 09:25	11/15/23 11:44	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/13/23 09:25	11/15/23 11:44	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/13/23 09:25	11/15/23 11:44	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/13/23 09:25	11/15/23 11:44	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/13/23 09:25	11/15/23 11:44	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/13/23 09:25	11/15/23 11:44	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/13/23 09:25	11/15/23 11:44	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/13/23 09:25	11/15/23 11:44	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/13/23 09:25	11/15/23 11:44	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/13/23 09:25	11/15/23 11:44	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/13/23 09:25	11/15/23 11:44	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130701/1-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/13/23 09:25	11/15/23 11:44	1
3,3'-Dimethylbenzidine	<0.444	U	8.00	0.444	ug/L		11/13/23 09:25	11/15/23 11:44	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/13/23 09:25	11/15/23 11:44	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/13/23 09:25	11/15/23 11:44	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/13/23 09:25	11/15/23 11:44	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/13/23 09:25	11/15/23 11:44	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/13/23 09:25	11/15/23 11:44	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/13/23 09:25	11/15/23 11:44	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/13/23 09:25	11/15/23 11:44	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/13/23 09:25	11/15/23 11:44	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/13/23 09:25	11/15/23 11:44	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/13/23 09:25	11/15/23 11:44	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/13/23 09:25	11/15/23 11:44	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/13/23 09:25	11/15/23 11:44	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/13/23 09:25	11/15/23 11:44	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/13/23 09:25	11/15/23 11:44	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/13/23 09:25	11/15/23 11:44	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/13/23 09:25	11/15/23 11:44	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/13/23 09:25	11/15/23 11:44	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/13/23 09:25	11/15/23 11:44	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/13/23 09:25	11/15/23 11:44	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 11:44	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/13/23 09:25	11/15/23 11:44	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/13/23 09:25	11/15/23 11:44	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/13/23 09:25	11/15/23 11:44	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/13/23 09:25	11/15/23 11:44	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/13/23 09:25	11/15/23 11:44	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/13/23 09:25	11/15/23 11:44	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/13/23 09:25	11/15/23 11:44	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/13/23 09:25	11/15/23 11:44	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/13/23 09:25	11/15/23 11:44	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/13/23 09:25	11/15/23 11:44	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 11:44	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/13/23 09:25	11/15/23 11:44	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/13/23 09:25	11/15/23 11:44	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/13/23 09:25	11/15/23 11:44	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/13/23 09:25	11/15/23 11:44	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/13/23 09:25	11/15/23 11:44	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/13/23 09:25	11/15/23 11:44	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/13/23 09:25	11/15/23 11:44	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/13/23 09:25	11/15/23 11:44	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/13/23 09:25	11/15/23 11:44	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/13/23 09:25	11/15/23 11:44	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/13/23 09:25	11/15/23 11:44	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/13/23 09:25	11/15/23 11:44	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/13/23 09:25	11/15/23 11:44	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/13/23 09:25	11/15/23 11:44	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/13/23 09:25	11/15/23 11:44	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/13/23 09:25	11/15/23 11:44	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130701/1-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/13/23 09:25	11/15/23 11:44	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/13/23 09:25	11/15/23 11:44	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/13/23 09:25	11/15/23 11:44	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/13/23 09:25	11/15/23 11:44	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/13/23 09:25	11/15/23 11:44	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/13/23 09:25	11/15/23 11:44	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/13/23 09:25	11/15/23 11:44	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/13/23 09:25	11/15/23 11:44	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/13/23 09:25	11/15/23 11:44	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/13/23 09:25	11/15/23 11:44	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/13/23 09:25	11/15/23 11:44	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/13/23 09:25	11/15/23 11:44	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/13/23 09:25	11/15/23 11:44	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/13/23 09:25	11/15/23 11:44	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/13/23 09:25	11/15/23 11:44	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/13/23 09:25	11/15/23 11:44	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/13/23 09:25	11/15/23 11:44	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/13/23 09:25	11/15/23 11:44	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/13/23 09:25	11/15/23 11:44	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/13/23 09:25	11/15/23 11:44	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/13/23 09:25	11/15/23 11:44	1
p-Phenylene diamine	<10.0	U	10.0	10.0	ug/L		11/13/23 09:25	11/15/23 11:44	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/13/23 09:25	11/15/23 11:44	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/13/23 09:25	11/15/23 11:44	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/13/23 09:25	11/15/23 11:44	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/13/23 09:25	11/15/23 11:44	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/13/23 09:25	11/15/23 11:44	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/13/23 09:25	11/15/23 11:44	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/13/23 09:25	11/15/23 11:44	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/13/23 09:25	11/15/23 11:44	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/13/23 09:25	11/15/23 11:44	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/13/23 09:25	11/15/23 11:44	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/13/23 09:25	11/15/23 11:44	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/13/23 09:25	11/15/23 11:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	53		31 - 132	11/13/23 09:25	11/15/23 11:44	1
2-Fluorobiphenyl	72		40 - 130	11/13/23 09:25	11/15/23 11:44	1
2-Fluorophenol (Surr)	49		21 - 114	11/13/23 09:25	11/15/23 11:44	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130701/1-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130701

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	71		37 - 130	11/13/23 09:25	11/15/23 11:44	1
Phenol-d5 (Surr)	33		16 - 117	11/13/23 09:25	11/15/23 11:44	1
p-Terphenyl-d14	99		20 - 141	11/13/23 09:25	11/15/23 11:44	1

Lab Sample ID: LCS 860-130701/2-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	20.0	12.34		ug/L		62	41 - 117
1,2,4,5-Tetrachlorobenzene	20.0	12.06		ug/L		60	39 - 120
1,2,4-Trichlorobenzene	20.0	11.88		ug/L		59	34 - 117
1,2-Dichlorobenzene	20.0	12.65		ug/L		63	38 - 111
1,3,5-Trinitrobenzene	20.0	15.98		ug/L		80	35 - 128
1,3-Dichlorobenzene	20.0	12.57		ug/L		63	37 - 111
1,3-Dinitrobenzene	20.0	12.91		ug/L		65	36 - 131
1,4-Dichlorobenzene	20.0	12.42		ug/L		62	37 - 111
1,4-Naphthoquinone	20.0	13.50		ug/L		68	10 - 150
1-Naphthylamine	20.0	11.41		ug/L		57	40 - 120
2,2'-oxybis[1-chloropropane]	20.0	13.43		ug/L		67	10 - 150
2,3,4,6-Tetrachlorophenol	20.0	14.24		ug/L		71	33 - 132
2,4,5-Trichlorophenol	20.0	14.64		ug/L		73	39 - 125
2,4,6-Trichlorophenol	20.0	13.24		ug/L		66	42 - 125
2,4-Dichlorophenol	20.0	12.89		ug/L		64	38 - 120
2,4-Dimethylphenol	20.0	15.06		ug/L		75	39 - 117
2,4-Dinitrophenol	20.0	13.64		ug/L		68	13 - 152
2,4-Dinitrotoluene	20.0	14.16		ug/L		71	41 - 128
2,6-Dichlorophenol	20.0	12.63		ug/L		63	42 - 118
2,6-Dinitrotoluene	20.0	13.57		ug/L		68	42 - 127
2-Acetylaminofluorene	20.0	13.50		ug/L		68	40 - 130
2-Chloronaphthalene	20.0	13.21		ug/L		66	40 - 118
2-Chlorophenol	20.0	12.70		ug/L		63	41 - 108
2-Methylnaphthalene	20.0	11.93		ug/L		60	37 - 112
2-Methylphenol	20.0	12.40		ug/L		62	36 - 125
2-Naphthylamine	20.0	11.39		ug/L		57	40 - 120
2-Nitroaniline	20.0	14.30		ug/L		71	34 - 126
2-Nitrophenol	20.0	12.47		ug/L		62	38 - 125
2-Picoline	20.0	3.468		ug/L		17	11 - 107
2-Toluidine	20.0	10.34		ug/L		52	38 - 124
3 & 4 Methylphenol	20.0	11.74		ug/L		59	35 - 116
3,3'-Dichlorobenzidine	20.0	14.91		ug/L		75	29 - 141
3,3'-Dimethylbenzidine	20.0	2.587	J *	ug/L		13	40 - 130
3-Methylcholanthrene	20.0	16.11		ug/L		81	20 - 130
3-Nitroaniline	20.0	13.72		ug/L		69	42 - 123
4,6-Dinitro-2-methylphenol	20.0	14.18		ug/L		71	12 - 157
4-Aminobiphenyl	20.0	10.79		ug/L		54	20 - 130
4-Bromophenyl phenyl ether	20.0	12.66		ug/L		63	40 - 126
4-Chloro-3-methylphenol	20.0	12.09		ug/L		60	40 - 119

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130701/2-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	20.0	11.55		ug/L		58	39 - 111
4-Chlorophenyl phenyl ether	20.0	12.38		ug/L		62	40 - 122
4-Nitroaniline	20.0	16.01		ug/L		80	42 - 125
4-Nitroquinoline-1-oxide	20.0	14.51		ug/L		73	20 - 130
7,12-Dimethylbenz(a)anthracene	20.0	12.85		ug/L		64	40 - 120
Acenaphthene	20.0	13.02		ug/L		65	41 - 116
Acenaphthylene	20.0	13.38		ug/L		67	41 - 118
Acetophenone	20.0	12.52		ug/L		63	23 - 175
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0	
Aniline	20.0	6.892		ug/L		34	31 - 100
Anthracene	20.0	14.43		ug/L		72	39 - 127
Benzo[a]anthracene	20.0	15.40		ug/L		77	40 - 129
Benzo[a]pyrene	20.0	16.65		ug/L		83	36 - 141
Benzo[b]fluoranthene	20.0	15.44		ug/L		77	34 - 139
Benzo[g,h,i]perylene	20.0	18.33		ug/L		92	32 - 141
Benzo[k]fluoranthene	20.0	15.64		ug/L		78	31 - 139
Benzyl alcohol	20.0	13.76		ug/L		69	37 - 102
Bis(2-chloroethoxy)methane	20.0	12.97		ug/L		65	36 - 113
Bis(2-chloroethyl)ether	20.0	13.47		ug/L		67	38 - 111
Bis(2-ethylhexyl) phthalate	20.0	14.12		ug/L		71	44 - 136
Butyl benzyl phthalate	20.0	15.09		ug/L		75	44 - 133
Chrysene	20.0	15.59		ug/L		78	41 - 124
Dibenz(a,h)anthracene	20.0	18.34		ug/L		92	35 - 143
Dibenzofuran	20.0	13.14		ug/L		66	41 - 119
Diethyl phthalate	20.0	13.11		ug/L		66	41 - 125
Dimethyl phthalate	20.0	13.49		ug/L		67	42 - 123
Di-n-butyl phthalate	20.0	16.13		ug/L		81	41 - 133
Di-n-octyl phthalate	20.0	14.57		ug/L		73	34 - 145
Diphenyl ether	20.0	12.22		ug/L		61	40 - 130
Ethyl methanesulfonate	20.0	13.63		ug/L		68	40 - 127
Fluoranthene	20.0	15.77		ug/L		79	38 - 132
Fluorene	20.0	12.95		ug/L		65	41 - 121
Hexachlorobenzene	20.0	12.91		ug/L		65	39 - 128
Hexachlorobutadiene	20.0	11.74		ug/L		59	31 - 120
Hexachlorocyclopentadiene	20.0	14.02		ug/L		70	15 - 117
Hexachloroethane	20.0	11.65		ug/L		58	37 - 109
Hexachloropropene	20.0	10.36		ug/L		52	24 - 122
Indeno[1,2,3-cd]pyrene	20.0	18.59		ug/L		93	35 - 141
Isophorone	20.0	13.26		ug/L		66	40 - 115
Methyl methanesulfonate	20.0	12.12		ug/L		61	33 - 120
Naphthalene	20.0	12.31		ug/L		62	37 - 113
Nitrobenzene	20.0	13.64		ug/L		68	37 - 114
N-Nitro-o-toluidine	20.0	14.51		ug/L		73	40 - 120
N-Nitrosodiethylamine	20.0	13.62		ug/L		68	42 - 115
N-Nitrosodimethylamine	20.0	12.04		ug/L		60	28 - 126
N-Nitrosodi-n-butylamine	20.0	10.09		ug/L		50	34 - 122
N-Nitrosodi-n-propylamine	20.0	13.30		ug/L		66	38 - 117
N-Nitrosodiphenylamine	20.0	13.99		ug/L		70	40 - 127

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130701/2-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosomethylethylamine	20.0	13.38		ug/L		67	41 - 108
N-Nitrosomorpholine	20.0	12.87		ug/L		64	32 - 115
N-Nitrosopiperidine	20.0	12.41		ug/L		62	39 - 115
N-Nitrosopyrrolidine	20.0	13.30		ug/L		67	36 - 121
p-Dimethylamino azobenzene	20.0	12.51		ug/L		63	38 - 124
Pentachlorobenzene	20.0	11.63		ug/L		58	40 - 123
Pentachloronitrobenzene	20.0	13.55		ug/L		68	40 - 120
Pentachlorophenol	20.0	13.98		ug/L		70	10 - 137
Phenacetin	20.0	14.88		ug/L		74	20 - 130
Phenanthrene	20.0	13.61		ug/L		68	39 - 126
Phenol	20.0	8.341		ug/L		42	15 - 106
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150
Pronamide	20.0	15.98		ug/L		80	25 - 120
Pyrene	20.0	13.59		ug/L		68	40 - 130
Pyridine	20.0	4.186		ug/L		21	16 - 135
Safrole, Total	20.0	12.91		ug/L		65	40 - 120
Aramite Peak 2	10.0	5.545		ug/L		55	35 - 130
Isosafrole Peak 1	3.20	<2.46	U	ug/L		56	40 - 120
Diallate Peak 2	5.20	3.591	J	ug/L		69	38 - 130
Isosafrole Peak 2	16.8	10.96		ug/L		65	40 - 120
Diallate Peak 1	14.8	11.01		ug/L		74	38 - 130
Aramite Peak 1	10.0	5.593		ug/L		56	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	77		31 - 132
2-Fluorobiphenyl	77		40 - 130
2-Fluorophenol (Surr)	62		21 - 114
Nitrobenzene-d5 (Surr)	81		37 - 130
Phenol-d5 (Surr)	47		16 - 117
p-Terphenyl-d14	96		20 - 141

Lab Sample ID: LCSD 860-130701/3-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130701

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	20.0	13.34		ug/L		67	41 - 117	8	30
1,2,4,5-Tetrachlorobenzene	20.0	12.97		ug/L		65	39 - 120	7	30
1,2,4-Trichlorobenzene	20.0	13.05		ug/L		65	34 - 117	9	30
1,2-Dichlorobenzene	20.0	13.28		ug/L		66	38 - 111	5	30
1,3,5-Trinitrobenzene	20.0	16.72		ug/L		84	35 - 128	5	30
1,3-Dichlorobenzene	20.0	13.45		ug/L		67	37 - 111	7	30
1,3-Dinitrobenzene	20.0	14.50		ug/L		73	36 - 131	12	30
1,4-Dichlorobenzene	20.0	13.36		ug/L		67	37 - 111	7	30
1,4-Naphthoquinone	20.0	15.24		ug/L		76	10 - 150	12	30
1-Naphthylamine	20.0	12.05		ug/L		60	40 - 120	5	30
2,2'-oxybis[1-chloropropane]	20.0	13.74		ug/L		69	10 - 150	2	30
2,3,4,6-Tetrachlorophenol	20.0	15.39		ug/L		77	33 - 132	8	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130701/3-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130701

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	20.0	16.06		ug/L		80	39 - 125	9	30
2,4,6-Trichlorophenol	20.0	14.72		ug/L		74	42 - 125	11	30
2,4-Dichlorophenol	20.0	14.16		ug/L		71	38 - 120	9	30
2,4-Dimethylphenol	20.0	16.90		ug/L		85	39 - 117	12	30
2,4-Dinitrophenol	20.0	15.07		ug/L		75	13 - 152	10	30
2,4-Dinitrotoluene	20.0	15.48		ug/L		77	41 - 128	9	30
2,6-Dichlorophenol	20.0	13.19		ug/L		66	42 - 118	4	30
2,6-Dinitrotoluene	20.0	15.10		ug/L		76	42 - 127	11	30
2-Acetylaminofluorene	20.0	13.65		ug/L		68	40 - 130	1	30
2-Chloronaphthalene	20.0	14.44		ug/L		72	40 - 118	9	30
2-Chlorophenol	20.0	13.70		ug/L		69	41 - 108	8	30
2-Methylnaphthalene	20.0	13.22		ug/L		66	37 - 112	10	30
2-Methylphenol	20.0	13.52		ug/L		68	36 - 125	9	30
2-Naphthylamine	20.0	11.90		ug/L		59	40 - 120	4	30
2-Nitroaniline	20.0	16.42		ug/L		82	34 - 126	14	30
2-Nitrophenol	20.0	14.22		ug/L		71	38 - 125	13	30
2-Picoline	20.0	3.192		ug/L		16	11 - 107	8	30
2-Toluidine	20.0	11.41		ug/L		57	38 - 124	10	30
3 & 4 Methylphenol	20.0	12.48		ug/L		62	35 - 116	6	30
3,3'-Dichlorobenzidine	20.0	14.84		ug/L		74	29 - 141	0	30
3,3'-Dimethylbenzidine	20.0	2.069	J *	ug/L		10	40 - 130	22	30
3-Methylcholanthrene	20.0	16.07		ug/L		80	20 - 130	0	30
3-Nitroaniline	20.0	15.80		ug/L		79	42 - 123	14	30
4,6-Dinitro-2-methylphenol	20.0	15.32		ug/L		77	12 - 157	8	30
4-Aminobiphenyl	20.0	11.03		ug/L		55	20 - 130	2	30
4-Bromophenyl phenyl ether	20.0	13.78		ug/L		69	40 - 126	9	30
4-Chloro-3-methylphenol	20.0	13.40		ug/L		67	40 - 119	10	30
4-Chloroaniline	20.0	12.61		ug/L		63	39 - 111	9	30
4-Chlorophenyl phenyl ether	20.0	13.47		ug/L		67	40 - 122	8	30
4-Nitroaniline	20.0	16.54		ug/L		83	42 - 125	3	30
4-Nitroquinoline-1-oxide	20.0	14.85		ug/L		74	20 - 130	2	30
7,12-Dimethylbenz(a)anthracene	20.0	12.02		ug/L		60	40 - 120	7	30
Acenaphthene	20.0	14.07		ug/L		70	41 - 116	8	30
Acenaphthylene	20.0	14.81		ug/L		74	41 - 118	10	30
Acetophenone	20.0	13.38		ug/L		67	23 - 175	7	30
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0		NC	30
Aniline	20.0	7.972		ug/L		40	31 - 100	15	30
Anthracene	20.0	14.88		ug/L		74	39 - 127	3	30
Benzo[a]anthracene	20.0	15.61		ug/L		78	40 - 129	1	30
Benzo[a]pyrene	20.0	16.42		ug/L		82	36 - 141	1	30
Benzo[b]fluoranthene	20.0	15.06		ug/L		75	34 - 139	2	30
Benzo[g,h,i]perylene	20.0	19.17		ug/L		96	32 - 141	4	30
Benzo[k]fluoranthene	20.0	14.96		ug/L		75	31 - 139	4	30
Benzyl alcohol	20.0	14.44		ug/L		72	37 - 102	5	30
Bis(2-chloroethoxy)methane	20.0	13.60		ug/L		68	36 - 113	5	30
Bis(2-chloroethyl)ether	20.0	14.43		ug/L		72	38 - 111	7	30
Bis(2-ethylhexyl) phthalate	20.0	13.74		ug/L		69	44 - 136	3	30
Butyl benzyl phthalate	20.0	14.78		ug/L		74	44 - 133	2	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130701/3-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130701

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chrysene	20.0	15.48		ug/L		77	41 - 124	1	30
Dibenz(a,h)anthracene	20.0	18.45		ug/L		92	35 - 143	1	30
Dibenzofuran	20.0	14.15		ug/L		71	41 - 119	7	30
Diethyl phthalate	20.0	13.79		ug/L		69	41 - 125	5	30
Dimethyl phthalate	20.0	14.52		ug/L		73	42 - 123	7	30
Di-n-butyl phthalate	20.0	16.42		ug/L		82	41 - 133	2	30
Di-n-octyl phthalate	20.0	14.07		ug/L		70	34 - 145	3	30
Diphenyl ether	20.0	13.01		ug/L		65	40 - 130	6	30
Ethyl methanesulfonate	20.0	14.50		ug/L		73	40 - 127	6	30
Fluoranthene	20.0	15.96		ug/L		80	38 - 132	1	30
Fluorene	20.0	14.02		ug/L		70	41 - 121	8	30
Hexachlorobenzene	20.0	13.52		ug/L		68	39 - 128	5	30
Hexachlorobutadiene	20.0	12.43		ug/L		62	31 - 120	6	30
Hexachlorocyclopentadiene	20.0	15.33		ug/L		77	15 - 117	9	30
Hexachloroethane	20.0	12.56		ug/L		63	37 - 109	8	30
Hexachloropropene	20.0	11.42		ug/L		57	24 - 122	10	30
Indeno[1,2,3-cd]pyrene	20.0	18.88		ug/L		94	35 - 141	2	30
Isophorone	20.0	14.25		ug/L		71	40 - 115	7	30
Methyl methanesulfonate	20.0	12.71		ug/L		64	33 - 120	5	30
Naphthalene	20.0	13.33		ug/L		67	37 - 113	8	30
Nitrobenzene	20.0	14.64		ug/L		73	37 - 114	7	30
N-Nitro-o-toluidine	20.0	15.15		ug/L		76	40 - 120	4	30
N-Nitrosodiethylamine	20.0	14.34		ug/L		72	42 - 115	5	30
N-Nitrosodimethylamine	20.0	12.77		ug/L		64	28 - 126	6	30
N-Nitrosodi-n-butylamine	20.0	10.78		ug/L		54	34 - 122	7	30
N-Nitrosodi-n-propylamine	20.0	13.92		ug/L		70	38 - 117	5	30
N-Nitrosodiphenylamine	20.0	15.60		ug/L		78	40 - 127	11	30
N-Nitrosomethylethylamine	20.0	15.17		ug/L		76	41 - 108	13	30
N-Nitrosomorpholine	20.0	13.70		ug/L		69	32 - 115	6	30
N-Nitrosopiperidine	20.0	13.52		ug/L		68	39 - 115	9	30
N-Nitrosopyrrolidine	20.0	14.27		ug/L		71	36 - 121	7	30
p-Dimethylamino azobenzene	20.0	12.47		ug/L		62	38 - 124	0	30
Pentachlorobenzene	20.0	12.96		ug/L		65	40 - 123	11	30
Pentachloronitrobenzene	20.0	14.13		ug/L		71	40 - 120	4	30
Pentachlorophenol	20.0	14.64		ug/L		73	10 - 137	5	30
Phenacetin	20.0	14.31		ug/L		72	20 - 130	4	30
Phenanthrene	20.0	14.58		ug/L		73	39 - 126	7	30
Phenol	20.0	9.218		ug/L		46	15 - 106	10	30
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150	NC	30
Pronamide	20.0	15.60		ug/L		78	25 - 120	2	30
Pyrene	20.0	14.09		ug/L		70	40 - 130	4	30
Pyridine	20.0	4.256		ug/L		21	16 - 135	2	30
Safrole, Total	20.0	14.21		ug/L		71	40 - 120	10	30
Aramite Peak 2	10.0	5.794		ug/L		58	35 - 130	4	30
Isosafrole Peak 1	3.20	<2.46	U	ug/L		65	40 - 120	14	30
Diallate Peak 2	5.20	3.658	J	ug/L		70	38 - 130	2	30
Isosafrole Peak 2	16.8	11.77		ug/L		70	40 - 120	7	30
Diallate Peak 1	14.8	11.29		ug/L		76	38 - 130	3	30
Aramite Peak 1	10.0	6.032		ug/L		60	35 - 130	8	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	83		31 - 132
2-Fluorobiphenyl	82		40 - 130
2-Fluorophenol (Surr)	65		21 - 114
Nitrobenzene-d5 (Surr)	87		37 - 130
Phenol-d5 (Surr)	49		16 - 117
p-Terphenyl-d14	95		20 - 141

Lab Sample ID: MB 860-130968/1-A
Matrix: Water
Analysis Batch: 131106

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 130968

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/14/23 12:29	11/15/23 10:00	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/14/23 12:29	11/15/23 10:00	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/14/23 12:29	11/15/23 10:00	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/14/23 12:29	11/15/23 10:00	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/14/23 12:29	11/15/23 10:00	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/14/23 12:29	11/15/23 10:00	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/14/23 12:29	11/15/23 10:00	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/14/23 12:29	11/15/23 10:00	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/14/23 12:29	11/15/23 10:00	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/14/23 12:29	11/15/23 10:00	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/14/23 12:29	11/15/23 10:00	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/14/23 12:29	11/15/23 10:00	1
3,3'-Dimethylbenzidine	<0.444	U	8.00	0.444	ug/L		11/14/23 12:29	11/15/23 10:00	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/14/23 12:29	11/15/23 10:00	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/14/23 12:29	11/15/23 10:00	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/14/23 12:29	11/15/23 10:00	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/14/23 12:29	11/15/23 10:00	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/14/23 12:29	11/15/23 10:00	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/14/23 12:29	11/15/23 10:00	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130968/1-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/14/23 12:29	11/15/23 10:00	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/14/23 12:29	11/15/23 10:00	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/14/23 12:29	11/15/23 10:00	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/14/23 12:29	11/15/23 10:00	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/14/23 12:29	11/15/23 10:00	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/14/23 12:29	11/15/23 10:00	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/14/23 12:29	11/15/23 10:00	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/14/23 12:29	11/15/23 10:00	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/14/23 12:29	11/15/23 10:00	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/14/23 12:29	11/15/23 10:00	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/14/23 12:29	11/15/23 10:00	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/14/23 12:29	11/15/23 10:00	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/14/23 12:29	11/15/23 10:00	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 10:00	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/14/23 12:29	11/15/23 10:00	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/14/23 12:29	11/15/23 10:00	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/14/23 12:29	11/15/23 10:00	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/14/23 12:29	11/15/23 10:00	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/14/23 12:29	11/15/23 10:00	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/14/23 12:29	11/15/23 10:00	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/14/23 12:29	11/15/23 10:00	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/14/23 12:29	11/15/23 10:00	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/14/23 12:29	11/15/23 10:00	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/14/23 12:29	11/15/23 10:00	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 10:00	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/14/23 12:29	11/15/23 10:00	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/14/23 12:29	11/15/23 10:00	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/14/23 12:29	11/15/23 10:00	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/14/23 12:29	11/15/23 10:00	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/14/23 12:29	11/15/23 10:00	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/14/23 12:29	11/15/23 10:00	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/14/23 12:29	11/15/23 10:00	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/14/23 12:29	11/15/23 10:00	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/14/23 12:29	11/15/23 10:00	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/14/23 12:29	11/15/23 10:00	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/14/23 12:29	11/15/23 10:00	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/14/23 12:29	11/15/23 10:00	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 10:00	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/14/23 12:29	11/15/23 10:00	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/14/23 12:29	11/15/23 10:00	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/14/23 12:29	11/15/23 10:00	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/14/23 12:29	11/15/23 10:00	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/14/23 12:29	11/15/23 10:00	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/14/23 12:29	11/15/23 10:00	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/14/23 12:29	11/15/23 10:00	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/14/23 12:29	11/15/23 10:00	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/14/23 12:29	11/15/23 10:00	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/14/23 12:29	11/15/23 10:00	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/14/23 12:29	11/15/23 10:00	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130968/1-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/14/23 12:29	11/15/23 10:00	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/14/23 12:29	11/15/23 10:00	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/14/23 12:29	11/15/23 10:00	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/14/23 12:29	11/15/23 10:00	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/14/23 12:29	11/15/23 10:00	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/14/23 12:29	11/15/23 10:00	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/14/23 12:29	11/15/23 10:00	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/14/23 12:29	11/15/23 10:00	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/14/23 12:29	11/15/23 10:00	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/14/23 12:29	11/15/23 10:00	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/14/23 12:29	11/15/23 10:00	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/14/23 12:29	11/15/23 10:00	1
p-Phenylene diamine	<10.0	U	10.0	10.0	ug/L		11/14/23 12:29	11/15/23 10:00	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/14/23 12:29	11/15/23 10:00	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/14/23 12:29	11/15/23 10:00	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/14/23 12:29	11/15/23 10:00	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/14/23 12:29	11/15/23 10:00	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/14/23 12:29	11/15/23 10:00	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/14/23 12:29	11/15/23 10:00	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/14/23 12:29	11/15/23 10:00	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/14/23 12:29	11/15/23 10:00	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/14/23 12:29	11/15/23 10:00	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/14/23 12:29	11/15/23 10:00	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/14/23 12:29	11/15/23 10:00	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/14/23 12:29	11/15/23 10:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	55		31 - 132	11/14/23 12:29	11/15/23 10:00	1
2-Fluorobiphenyl	70		40 - 130	11/14/23 12:29	11/15/23 10:00	1
2-Fluorophenol (Surr)	51		21 - 114	11/14/23 12:29	11/15/23 10:00	1
Nitrobenzene-d5 (Surr)	67		37 - 130	11/14/23 12:29	11/15/23 10:00	1
Phenol-d5 (Surr)	38		16 - 117	11/14/23 12:29	11/15/23 10:00	1
p-Terphenyl-d14	101		20 - 141	11/14/23 12:29	11/15/23 10:00	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130968/2-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	20.0	12.30		ug/L		62	41 - 117
1,2,4,5-Tetrachlorobenzene	20.0	12.38		ug/L		62	39 - 120
1,2,4-Trichlorobenzene	20.0	11.35		ug/L		57	34 - 117
1,2-Dichlorobenzene	20.0	11.99		ug/L		60	38 - 111
1,3,5-Trinitrobenzene	20.0	13.04		ug/L		65	35 - 128
1,3-Dichlorobenzene	20.0	12.23		ug/L		61	37 - 111
1,3-Dinitrobenzene	20.0	12.35		ug/L		62	36 - 131
1,4-Dichlorobenzene	20.0	11.77		ug/L		59	37 - 111
1,4-Naphthoquinone	20.0	13.17		ug/L		66	10 - 150
1-Naphthylamine	20.0	10.12		ug/L		51	40 - 120
2,2'-oxybis[1-chloropropane]	20.0	12.40		ug/L		62	10 - 150
2,3,4,6-Tetrachlorophenol	20.0	13.35		ug/L		67	33 - 132
2,4,5-Trichlorophenol	20.0	13.62		ug/L		68	39 - 125
2,4,6-Trichlorophenol	20.0	13.31		ug/L		67	42 - 125
2,4-Dichlorophenol	20.0	11.86		ug/L		59	38 - 120
2,4-Dimethylphenol	20.0	14.23		ug/L		71	39 - 117
2,4-Dinitrophenol	20.0	11.41		ug/L		57	13 - 152
2,4-Dinitrotoluene	20.0	12.94		ug/L		65	41 - 128
2,6-Dichlorophenol	20.0	11.69		ug/L		58	42 - 118
2,6-Dinitrotoluene	20.0	12.74		ug/L		64	42 - 127
2-Acetylaminofluorene	20.0	11.49		ug/L		57	40 - 130
2-Chloronaphthalene	20.0	11.77		ug/L		59	40 - 118
2-Chlorophenol	20.0	11.60		ug/L		58	41 - 108
2-Methylnaphthalene	20.0	11.48		ug/L		57	37 - 112
2-Methylphenol	20.0	11.02		ug/L		55	36 - 125
2-Naphthylamine	20.0	9.610		ug/L		48	40 - 120
2-Nitroaniline	20.0	13.51		ug/L		68	34 - 126
2-Nitrophenol	20.0	11.21		ug/L		56	38 - 125
2-Picoline	20.0	4.987		ug/L		25	11 - 107
2-Toluidine	20.0	9.092		ug/L		45	38 - 124
3 & 4 Methylphenol	20.0	10.46		ug/L		52	35 - 116
3,3'-Dichlorobenzidine	20.0	13.55		ug/L		68	29 - 141
3,3'-Dimethylbenzidine	20.0	3.081	J *	ug/L		15	40 - 130
3-Methylcholanthrene	20.0	14.14		ug/L		71	20 - 130
3-Nitroaniline	20.0	13.27		ug/L		66	42 - 123
4,6-Dinitro-2-methylphenol	20.0	12.46		ug/L		62	12 - 157
4-Aminobiphenyl	20.0	9.707		ug/L		49	20 - 130
4-Bromophenyl phenyl ether	20.0	13.46		ug/L		67	40 - 126
4-Chloro-3-methylphenol	20.0	11.21		ug/L		56	40 - 119
4-Chloroaniline	20.0	10.08		ug/L		50	39 - 111
4-Chlorophenyl phenyl ether	20.0	12.90		ug/L		65	40 - 122
4-Nitroaniline	20.0	13.90		ug/L		69	42 - 125
4-Nitroquinoline-1-oxide	20.0	13.31		ug/L		67	20 - 130
7,12-Dimethylbenz(a)anthracene	20.0	12.17		ug/L		61	40 - 120
Acenaphthene	20.0	12.84		ug/L		64	41 - 116
Acenaphthylene	20.0	13.03		ug/L		65	41 - 118
Acetophenone	20.0	11.50		ug/L		58	23 - 175
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		4	

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130968/2-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	20.0	7.764		ug/L		39	31 - 100
Anthracene	20.0	13.97		ug/L		70	39 - 127
Benzo[a]anthracene	20.0	14.45		ug/L		72	40 - 129
Benzo[a]pyrene	20.0	14.89		ug/L		74	36 - 141
Benzo[b]fluoranthene	20.0	14.55		ug/L		73	34 - 139
Benzo[g,h,i]perylene	20.0	16.97		ug/L		85	32 - 141
Benzo[k]fluoranthene	20.0	14.23		ug/L		71	31 - 139
Benzyl alcohol	20.0	11.42		ug/L		57	37 - 102
Bis(2-chloroethoxy)methane	20.0	12.13		ug/L		61	36 - 113
Bis(2-chloroethyl)ether	20.0	12.44		ug/L		62	38 - 111
Bis(2-ethylhexyl) phthalate	20.0	12.28		ug/L		61	44 - 136
Butyl benzyl phthalate	20.0	13.10		ug/L		65	44 - 133
Chrysene	20.0	14.59		ug/L		73	41 - 124
Dibenz(a,h)anthracene	20.0	16.67		ug/L		83	35 - 143
Dibenzofuran	20.0	12.94		ug/L		65	41 - 119
Diethyl phthalate	20.0	12.74		ug/L		64	41 - 125
Dimethyl phthalate	20.0	13.43		ug/L		67	42 - 123
Di-n-butyl phthalate	20.0	13.77		ug/L		69	41 - 133
Di-n-octyl phthalate	20.0	12.94		ug/L		65	34 - 145
Diphenyl ether	20.0	12.06		ug/L		60	40 - 130
Ethyl methanesulfonate	20.0	12.15		ug/L		61	40 - 127
Fluoranthene	20.0	14.49		ug/L		72	38 - 132
Fluorene	20.0	12.71		ug/L		64	41 - 121
Hexachlorobenzene	20.0	13.78		ug/L		69	39 - 128
Hexachlorobutadiene	20.0	11.78		ug/L		59	31 - 120
Hexachlorocyclopentadiene	20.0	14.77		ug/L		74	15 - 117
Hexachloroethane	20.0	11.74		ug/L		59	37 - 109
Hexachloropropene	20.0	10.51		ug/L		53	24 - 122
Indeno[1,2,3-cd]pyrene	20.0	16.87		ug/L		84	35 - 141
Isophorone	20.0	12.14		ug/L		61	40 - 115
Methyl methanesulfonate	20.0	10.94		ug/L		55	33 - 120
Naphthalene	20.0	11.58		ug/L		58	37 - 113
Nitrobenzene	20.0	12.20		ug/L		61	37 - 114
N-Nitro-o-toluidine	20.0	12.38		ug/L		62	40 - 120
N-Nitrosodiethylamine	20.0	11.86		ug/L		59	42 - 115
N-Nitrosodimethylamine	20.0	11.03		ug/L		55	28 - 126
N-Nitrosodi-n-butylamine	20.0	9.509		ug/L		48	34 - 122
N-Nitrosodi-n-propylamine	20.0	12.22		ug/L		61	38 - 117
N-Nitrosodiphenylamine	20.0	14.10		ug/L		71	40 - 127
N-Nitrosomethylethylamine	20.0	12.48		ug/L		62	41 - 108
N-Nitrosomorpholine	20.0	11.99		ug/L		60	32 - 115
N-Nitrosopiperidine	20.0	11.55		ug/L		58	39 - 115
N-Nitrosopyrrolidine	20.0	11.72		ug/L		59	36 - 121
p-Dimethylamino azobenzene	20.0	10.93		ug/L		55	38 - 124
Pentachlorobenzene	20.0	12.74		ug/L		64	40 - 123
Pentachloronitrobenzene	20.0	12.26		ug/L		61	40 - 120
Pentachlorophenol	20.0	11.96		ug/L		60	10 - 137
Phenacetin	20.0	12.51		ug/L		63	20 - 130
Phenanthrene	20.0	14.11		ug/L		71	39 - 126

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130968/2-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	20.0	7.612		ug/L		38	15 - 106
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150
Pronamide	20.0	14.00		ug/L		70	25 - 120
Pyrene	20.0	13.20		ug/L		66	40 - 130
Pyridine	20.0	4.878		ug/L		24	16 - 135
Safrole, Total	20.0	12.18		ug/L		61	40 - 120
Aramite Peak 2	10.0	5.057		ug/L		51	35 - 130
Isosafrole Peak 1	3.20	<2.46	U	ug/L		58	40 - 120
Diallate Peak 2	5.20	3.368	J	ug/L		65	38 - 130
Isosafrole Peak 2	16.8	10.43		ug/L		62	40 - 120
Diallate Peak 1	14.8	10.38		ug/L		70	38 - 130
Aramite Peak 1	10.0	4.875		ug/L		49	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	72		31 - 132
2-Fluorobiphenyl	72		40 - 130
2-Fluorophenol (Surr)	50		21 - 114
Nitrobenzene-d5 (Surr)	67		37 - 130
Phenol-d5 (Surr)	41		16 - 117
p-Terphenyl-d14	85		20 - 141

Lab Sample ID: LCSD 860-130968/3-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130968

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	20.0	13.99		ug/L		70	41 - 117	13	30
1,2,4,5-Tetrachlorobenzene	20.0	13.46		ug/L		67	39 - 120	8	30
1,2,4-Trichlorobenzene	20.0	13.12		ug/L		66	34 - 117	14	30
1,2-Dichlorobenzene	20.0	13.58		ug/L		68	38 - 111	12	30
1,3,5-Trinitrobenzene	20.0	15.94		ug/L		80	35 - 128	20	30
1,3-Dichlorobenzene	20.0	13.12		ug/L		66	37 - 111	7	30
1,3-Dinitrobenzene	20.0	14.70		ug/L		74	36 - 131	17	30
1,4-Dichlorobenzene	20.0	13.43		ug/L		67	37 - 111	13	30
1,4-Naphthoquinone	20.0	15.73		ug/L		79	10 - 150	18	30
1-Naphthylamine	20.0	12.09		ug/L		60	40 - 120	18	30
2,2'-oxybis[1-chloropropane]	20.0	13.90		ug/L		70	10 - 150	11	30
2,3,4,6-Tetrachlorophenol	20.0	15.72		ug/L		79	33 - 132	16	30
2,4,5-Trichlorophenol	20.0	16.01		ug/L		80	39 - 125	16	30
2,4,6-Trichlorophenol	20.0	15.64		ug/L		78	42 - 125	16	30
2,4-Dichlorophenol	20.0	14.02		ug/L		70	38 - 120	17	30
2,4-Dimethylphenol	20.0	16.12		ug/L		81	39 - 117	12	30
2,4-Dinitrophenol	20.0	15.16		ug/L		76	13 - 152	28	30
2,4-Dinitrotoluene	20.0	15.87		ug/L		79	41 - 128	20	30
2,6-Dichlorophenol	20.0	13.68		ug/L		68	42 - 118	16	30
2,6-Dinitrotoluene	20.0	15.69		ug/L		78	42 - 127	21	30
2-Acetylaminofluorene	20.0	13.73		ug/L		69	40 - 130	18	30
2-Chloronaphthalene	20.0	14.54		ug/L		73	40 - 118	21	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130968/3-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130968

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chlorophenol	20.0	13.17		ug/L		66	41 - 108	13	30
2-Methylnaphthalene	20.0	13.16		ug/L		66	37 - 112	14	30
2-Methylphenol	20.0	12.59		ug/L		63	36 - 125	13	30
2-Naphthylamine	20.0	11.49		ug/L		57	40 - 120	18	30
2-Nitroaniline	20.0	15.78		ug/L		79	34 - 126	16	30
2-Nitrophenol	20.0	13.72		ug/L		69	38 - 125	20	30
2-Picoline	20.0	5.587		ug/L		28	11 - 107	11	30
2-Toluidine	20.0	10.56		ug/L		53	38 - 124	15	30
3 & 4 Methylphenol	20.0	12.12		ug/L		61	35 - 116	15	30
3,3'-Dichlorobenzidine	20.0	15.95		ug/L		80	29 - 141	16	30
3,3'-Dimethylbenzidine	20.0	3.891	J *	ug/L		19	40 - 130	23	30
3-Methylcholanthrene	20.0	17.04		ug/L		85	20 - 130	19	30
3-Nitroaniline	20.0	15.29		ug/L		76	42 - 123	14	30
4,6-Dinitro-2-methylphenol	20.0	15.72		ug/L		79	12 - 157	23	30
4-Aminobiphenyl	20.0	12.13		ug/L		61	20 - 130	22	30
4-Bromophenyl phenyl ether	20.0	15.35		ug/L		77	40 - 126	13	30
4-Chloro-3-methylphenol	20.0	13.34		ug/L		67	40 - 119	17	30
4-Chloroaniline	20.0	12.05		ug/L		60	39 - 111	18	30
4-Chlorophenyl phenyl ether	20.0	14.81		ug/L		74	40 - 122	14	30
4-Nitroaniline	20.0	16.43		ug/L		82	42 - 125	17	30
4-Nitroquinoline-1-oxide	20.0	16.37		ug/L		82	20 - 130	21	30
7,12-Dimethylbenz(a)anthracene	20.0	14.36		ug/L		72	40 - 120	16	30
Acenaphthene	20.0	14.42		ug/L		72	41 - 116	12	30
Acenaphthylene	20.0	15.13		ug/L		76	41 - 118	15	30
Acetophenone	20.0	13.00		ug/L		65	23 - 175	12	30
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		4		7	30
Aniline	20.0	8.865		ug/L		44	31 - 100	13	30
Anthracene	20.0	16.24		ug/L		81	39 - 127	15	30
Benzo[a]anthracene	20.0	16.16		ug/L		81	40 - 129	11	30
Benzo[a]pyrene	20.0	17.33		ug/L		87	36 - 141	15	30
Benzo[b]fluoranthene	20.0	17.11		ug/L		86	34 - 139	16	30
Benzo[g,h,i]perylene	20.0	19.48		ug/L		97	32 - 141	14	30
Benzo[k]fluoranthene	20.0	15.89		ug/L		79	31 - 139	11	30
Benzyl alcohol	20.0	12.99		ug/L		65	37 - 102	13	30
Bis(2-chloroethoxy)methane	20.0	13.55		ug/L		68	36 - 113	11	30
Bis(2-chloroethyl)ether	20.0	13.96		ug/L		70	38 - 111	12	30
Bis(2-ethylhexyl) phthalate	20.0	14.19		ug/L		71	44 - 136	14	30
Butyl benzyl phthalate	20.0	14.65		ug/L		73	44 - 133	11	30
Chrysene	20.0	16.44		ug/L		82	41 - 124	12	30
Dibenz(a,h)anthracene	20.0	19.45		ug/L		97	35 - 143	15	30
Dibenzofuran	20.0	14.74		ug/L		74	41 - 119	13	30
Diethyl phthalate	20.0	14.34		ug/L		72	41 - 125	12	30
Dimethyl phthalate	20.0	14.98		ug/L		75	42 - 123	11	30
Di-n-butyl phthalate	20.0	16.00		ug/L		80	41 - 133	15	30
Di-n-octyl phthalate	20.0	14.75		ug/L		74	34 - 145	13	30
Diphenyl ether	20.0	13.38		ug/L		67	40 - 130	10	30
Ethyl methanesulfonate	20.0	13.79		ug/L		69	40 - 127	13	30
Fluoranthene	20.0	16.93		ug/L		85	38 - 132	16	30

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130968/3-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130968

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluorene	20.0	14.73		ug/L		74	41 - 121	15	30
Hexachlorobenzene	20.0	15.80		ug/L		79	39 - 128	14	30
Hexachlorobutadiene	20.0	13.14		ug/L		66	31 - 120	11	30
Hexachlorocyclopentadiene	20.0	16.55		ug/L		83	15 - 117	11	30
Hexachloroethane	20.0	12.87		ug/L		64	37 - 109	9	30
Hexachloropropene	20.0	12.30		ug/L		62	24 - 122	16	30
Indeno[1,2,3-cd]pyrene	20.0	19.22		ug/L		96	35 - 141	13	30
Isophorone	20.0	14.08		ug/L		70	40 - 115	15	30
Methyl methanesulfonate	20.0	11.86		ug/L		59	33 - 120	8	30
Naphthalene	20.0	13.25		ug/L		66	37 - 113	13	30
Nitrobenzene	20.0	13.58		ug/L		68	37 - 114	11	30
N-Nitro-o-toluidine	20.0	14.82		ug/L		74	40 - 120	18	30
N-Nitrosodiethylamine	20.0	13.41		ug/L		67	42 - 115	12	30
N-Nitrosodimethylamine	20.0	11.66		ug/L		58	28 - 126	6	30
N-Nitrosodi-n-butylamine	20.0	11.16		ug/L		56	34 - 122	16	30
N-Nitrosodi-n-propylamine	20.0	13.34		ug/L		67	38 - 117	9	30
N-Nitrosodiphenylamine	20.0	16.19		ug/L		81	40 - 127	14	30
N-Nitrosomethylethylamine	20.0	13.38		ug/L		67	41 - 108	7	30
N-Nitrosomorpholine	20.0	13.02		ug/L		65	32 - 115	8	30
N-Nitrosopiperidine	20.0	12.88		ug/L		64	39 - 115	11	30
N-Nitrosopyrrolidine	20.0	13.14		ug/L		66	36 - 121	11	30
p-Dimethylamino azobenzene	20.0	12.63		ug/L		63	38 - 124	14	30
Pentachlorobenzene	20.0	14.04		ug/L		70	40 - 123	10	30
Pentachloronitrobenzene	20.0	14.77		ug/L		74	40 - 120	19	30
Pentachlorophenol	20.0	15.38		ug/L		77	10 - 137	25	30
Phenacetin	20.0	14.87		ug/L		74	20 - 130	17	30
Phenanthrene	20.0	15.85		ug/L		79	39 - 126	12	30
Phenol	20.0	8.397		ug/L		42	15 - 106	10	30
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150	NC	30
Pronamide	20.0	16.75		ug/L		84	25 - 120	18	30
Pyrene	20.0	14.74		ug/L		74	40 - 130	11	30
Pyridine	20.0	5.206		ug/L		26	16 - 135	7	30
Safrole, Total	20.0	14.04		ug/L		70	40 - 120	14	30
Aramite Peak 2	10.0	6.083		ug/L		61	35 - 130	18	30
Isosafrole Peak 1	3.20	<2.46	U	ug/L		65	40 - 120	12	30
Diallate Peak 2	5.20	3.948	J	ug/L		76	38 - 130	16	30
Isosafrole Peak 2	16.8	11.93		ug/L		71	40 - 120	13	30
Diallate Peak 1	14.8	12.17		ug/L		82	38 - 130	16	30
Aramite Peak 1	10.0	6.002		ug/L		60	35 - 130	21	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	84		31 - 132
2-Fluorobiphenyl	78		40 - 130
2-Fluorophenol (Surr)	59		21 - 114
Nitrobenzene-d5 (Surr)	77		37 - 130
Phenol-d5 (Surr)	46		16 - 117
p-Terphenyl-d14	96		20 - 141

Eurofins Houston

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

GC/MS VOA

Analysis Batch: 130402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61082-4	MW-1	Total/NA	Water	8260D	
860-61082-5	TB-02(110223)	Total/NA	Water	8260D	
860-61082-6	MW-11	Total/NA	Water	8260D	
860-61082-7	MW-4	Total/NA	Water	8260D	
860-61082-8	MW-5	Total/NA	Water	8260D	
860-61082-9	RB-01	Total/NA	Water	8260D	
MB 860-130402/11	Method Blank	Total/NA	Water	8260D	
LCS 860-130402/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-130402/7	Lab Control Sample Dup	Total/NA	Water	8260D	
400-246085-B-4 MS	Matrix Spike	Total/NA	Water	8260D	
400-246085-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 130579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61082-1	MW-3	Total/NA	Water	8260D	
860-61082-2	MW-2	Total/NA	Water	8260D	
860-61082-3	MW-10	Total/NA	Water	8260D	
MB 860-130579/9	Method Blank	Total/NA	Water	8260D	
LCS 860-130579/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-130579/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61082-1 MS	MW-3	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 130405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61082-1	MW-3	Total/NA	Water	3511	
860-61082-2	MW-2	Total/NA	Water	3511	
MB 860-130405/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-130405/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-130405/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
860-61041-C-6-B MS	Matrix Spike	Total/NA	Water	3511	
860-61041-C-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	3511	

Prep Batch: 130406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61082-3	MW-10	Total/NA	Water	3511	
860-61082-4	MW-1	Total/NA	Water	3511	
860-61082-6	MW-11	Total/NA	Water	3511	
860-61082-7	MW-4	Total/NA	Water	3511	
860-61082-8	MW-5	Total/NA	Water	3511	
860-61082-9	RB-01	Total/NA	Water	3511	
MB 860-130406/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-130406/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-130406/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Prep Batch: 130701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61082-1	MW-3	Total/NA	Water	3510C	
860-61082-2	MW-2	Total/NA	Water	3510C	
860-61082-3	MW-10	Total/NA	Water	3510C	

Eurofins Houston

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

GC/MS Semi VOA (Continued)

Prep Batch: 130701 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61082-4	MW-1	Total/NA	Water	3510C	
MB 860-130701/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-130701/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-130701/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 130968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61082-6	MW-11	Total/NA	Water	3510C	
860-61082-7	MW-4	Total/NA	Water	3510C	
860-61082-8	MW-5	Total/NA	Water	3510C	
860-61082-9	RB-01	Total/NA	Water	3510C	
MB 860-130968/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-130968/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-130968/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 131059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61082-3	MW-10	Total/NA	Water	8270E	130406
860-61082-4	MW-1	Total/NA	Water	8270E	130406
860-61082-6	MW-11	Total/NA	Water	8270E	130406
860-61082-7	MW-4	Total/NA	Water	8270E	130406
860-61082-9	RB-01	Total/NA	Water	8270E	130406
MB 860-130406/1-A	Method Blank	Total/NA	Water	8270E	130406
LCS 860-130406/2-A	Lab Control Sample	Total/NA	Water	8270E	130406
LCSD 860-130406/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	130406

Analysis Batch: 131106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-130701/1-A	Method Blank	Total/NA	Water	8270E LL	130701
MB 860-130968/1-A	Method Blank	Total/NA	Water	8270E LL	130968
LCS 860-130701/2-A	Lab Control Sample	Total/NA	Water	8270E LL	130701
LCS 860-130968/2-A	Lab Control Sample	Total/NA	Water	8270E LL	130968
LCSD 860-130701/3-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	130701
LCSD 860-130968/3-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	130968

Analysis Batch: 131221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61082-1	MW-3	Total/NA	Water	8270E LL	130701
860-61082-2	MW-2	Total/NA	Water	8270E LL	130701
860-61082-3	MW-10	Total/NA	Water	8270E LL	130701
860-61082-4	MW-1	Total/NA	Water	8270E LL	130701
860-61082-6	MW-11	Total/NA	Water	8270E LL	130968
860-61082-7	MW-4	Total/NA	Water	8270E LL	130968
860-61082-9	RB-01	Total/NA	Water	8270E LL	130968

Analysis Batch: 131258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-130405/1-A	Method Blank	Total/NA	Water	8270E	130405
LCS 860-130405/2-A	Lab Control Sample	Total/NA	Water	8270E	130405
LCSD 860-130405/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	130405
860-61041-C-6-B MS	Matrix Spike	Total/NA	Water	8270E	130405

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

GC/MS Semi VOA (Continued)

Analysis Batch: 131258 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61041-C-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270E	130405

Analysis Batch: 131328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61082-1	MW-3	Total/NA	Water	8270E	130405
860-61082-2	MW-2	Total/NA	Water	8270E	130405

Analysis Batch: 131366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61082-8	MW-5	Total/NA	Water	8270E	130406

Analysis Batch: 131436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61082-1	MW-3	Total/NA	Water	8270E LL	130701
860-61082-8	MW-5	Total/NA	Water	8270E LL	130968

Analysis Batch: 132731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61082-8	MW-5	Total/NA	Water	8270E LL	130968

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: MW-3

Date Collected: 11/07/23 13:11

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61082-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130579	11/10/23 23:36	A1S	EET HOU
Total/NA	Prep	3511			32.5 mL	2 mL	130405	11/10/23 06:41	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131328	11/16/23 17:42	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130701	11/13/23 09:25	DR	EET HOU
Total/NA	Analysis	8270E LL		10	1 mL	1 mL	131221	11/16/23 02:11	PXS	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130701	11/13/23 09:25	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131436	11/16/23 19:16	EM	EET HOU

Client Sample ID: MW-2

Date Collected: 11/07/23 14:07

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61082-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130579	11/10/23 23:57	A1S	EET HOU
Total/NA	Prep	3511			33.2 mL	2 mL	130405	11/10/23 06:41	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131328	11/16/23 18:12	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130701	11/13/23 09:25	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131221	11/15/23 17:32	PXS	EET HOU

Client Sample ID: MW-10

Date Collected: 11/07/23 15:01

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61082-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130579	11/11/23 00:18	A1S	EET HOU
Total/NA	Prep	3511			33.9 mL	2 mL	130406	11/10/23 06:42	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131059	11/15/23 02:14	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130701	11/13/23 09:25	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131221	11/15/23 17:52	PXS	EET HOU

Client Sample ID: MW-1

Date Collected: 11/07/23 16:18

Date Received: 11/09/23 09:56

Lab Sample ID: 860-61082-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130402	11/10/23 17:01	TTD	EET HOU
Total/NA	Prep	3511			34.4 mL	2 mL	130406	11/10/23 06:42	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131059	11/15/23 02:43	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130701	11/13/23 09:25	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131221	11/15/23 18:13	PXS	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: TB-02(110223)

Lab Sample ID: 860-61082-5

Date Collected: 11/07/23 00:00

Matrix: Water

Date Received: 11/09/23 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130402	11/10/23 12:35	TTD	EET HOU

Client Sample ID: MW-11

Lab Sample ID: 860-61082-6

Date Collected: 11/08/23 12:26

Matrix: Water

Date Received: 11/09/23 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130402	11/10/23 17:22	TTD	EET HOU
Total/NA	Prep	3511			33.7 mL	2 mL	130406	11/10/23 06:42	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131059	11/15/23 03:13	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130968	11/14/23 12:29	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131221	11/15/23 18:34	PXS	EET HOU

Client Sample ID: MW-4

Lab Sample ID: 860-61082-7

Date Collected: 11/08/23 14:20

Matrix: Water

Date Received: 11/09/23 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130402	11/10/23 17:42	TTD	EET HOU
Total/NA	Prep	3511			34.3 mL	2 mL	130406	11/10/23 06:42	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131059	11/15/23 03:43	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130968	11/14/23 12:29	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131221	11/15/23 19:16	PXS	EET HOU

Client Sample ID: MW-5

Lab Sample ID: 860-61082-8

Date Collected: 11/08/23 15:11

Matrix: Water

Date Received: 11/09/23 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130402	11/10/23 18:03	TTD	EET HOU
Total/NA	Prep	3511			34 mL	2 mL	130406	11/10/23 06:42	TH	EET HOU
Total/NA	Analysis	8270E		20	1 mL	1 mL	131366	11/16/23 12:13	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130968	11/14/23 12:29	DR	EET HOU
Total/NA	Analysis	8270E LL		5	1 mL	1 mL	131436	11/16/23 22:24	EM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130968	11/14/23 12:29	DR	EET HOU
Total/NA	Analysis	8270E LL		5	1 mL	1 mL	132731	11/28/23 14:41	T1S	EET HOU

Client Sample ID: RB-01

Lab Sample ID: 860-61082-9

Date Collected: 11/08/23 15:25

Matrix: Water

Date Received: 11/09/23 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130402	11/10/23 13:36	TTD	EET HOU
Total/NA	Prep	3511			34.5 mL	2 mL	130406	11/10/23 06:42	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131059	11/15/23 04:42	JM	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Client Sample ID: RB-01
Date Collected: 11/08/23 15:25
Date Received: 11/09/23 09:56

Lab Sample ID: 860-61082-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1.00 mL	130968	11/14/23 12:29	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131221	11/15/23 18:55	PXS	EET HOU

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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Accreditation/Certification Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61082-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-61082-1	MW-3	Water	11/07/23 13:11	11/09/23 09:56
860-61082-2	MW-2	Water	11/07/23 14:07	11/09/23 09:56
860-61082-3	MW-10	Water	11/07/23 15:01	11/09/23 09:56
860-61082-4	MW-1	Water	11/07/23 16:18	11/09/23 09:56
860-61082-5	TB-02(110223)	Water	11/07/23 00:00	11/09/23 09:56
860-61082-6	MW-11	Water	11/08/23 12:26	11/09/23 09:56
860-61082-7	MW-4	Water	11/08/23 14:20	11/09/23 09:56
860-61082-8	MW-5	Water	11/08/23 15:11	11/09/23 09:56
860-61082-9	RB-01	Water	11/08/23 15:25	11/09/23 09:56

eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Ruao Wells

Chain of Custody Record



UNITED STATES

Client Information		Lab PIM:		Carrier Tracking No(s):		COC No:						
Client Contact: Mir Antonio Cardoso		Kudchadkar Sachin G		Kudchadkar Sachin G		860-23558-8445.1						
Company: ARCADIS US Inc		E-Mail: Sachin.Kudchadkar@et.eurofins.com		State of Origin:		Page: Job #:						
Address: 4300 West Cypress Street Suite 450		Due Date Requested:		Analysis Requested		Preservation Codes:						
City: Tampa		TAT Requested (days):				A HCL B NaOH C AsNaO2 D Zn Acetate E Nitric Acid F NaHSO4 G MeOH H Anchor I Ice J DI Water K EDTA L EDA Other						
State, Zip: FL 33607		Compliance Project: ☐ Yes ☒ No				M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2SO3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Y Trizma Z other (specify)						
Phone:		PO #:										
Email: antonio.cardoso@arcadis.com		IWO #:										
Project Name: Hercules Hattiesburg MS		Project #:										
Site:		SSOW#:										
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Soil, On-water, etc.)	Field Filtered Sample (Yes or No)	Performance MS/MSD (Yes or No)	8270E SIM ID, D5 1,4 Dioxane	8270E LL Appendix 9 SVOCs	8260D Appendix 9 VOCs	Total Number of Containers	Special Instructions/Note:
MW-3		11/7/23	1311	G	Water	N	N	N	N	N	7	
MW-2		"	1407	G	Water	N	N	N	N	N	7	
MW-10		"	1501	G	Water	N	N	N	N	N	7	
MW-1		"	1618	G	Water	N	N	N	N	N	7	
TB-12 (10223)		"	-	G	Water	N	N	-	-	-	7	
MW-4		11/8/23	1226	G	Water	N	N	N	N	N	7	Temp 11.1 C/F -0.0 Corrected Temp 11.1 IR ID HOU-369
MW-5		"	1420	G	Water	N	N	N	N	N	7	
RB-01		"	1511	G	Water	N	N	N	N	N	7	
		"	1525	G	Water	N	N	N	N	N	7	
					Water							
					Water							

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I II III IV Other (specify)

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *[Signature]* Date/Time: **11-8-23 / 1600** Company: **ARCADIS**

Relinquished by: *[Signature]* Date/Time: **11/9/23 0956** Company: **ARCADIS**

Relinquished by: *[Signature]* Date/Time: _____ Company: _____

Custody Seals (Intact): ☒ Yes ☐ No Custody Seal No. _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Method of Shipment: _____

Received by: *[Signature]* Date/Time: _____ Company: _____

Received by: *[Signature]* Date/Time: _____ Company: _____

Received by: *[Signature]* Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-61082-1

Login Number: 61082

List Number: 1

Creator: Rubio, Yuri

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

ANALYTICAL REPORT

PREPARED FOR

Attn: Timothy Hassett
Ashland LLC
Ashland Hercules Research Center
500 Hercules Rd Bldg 8145
Wilmington, Delaware 19808

Generated 11/29/2023 5:42:16 PM

JOB DESCRIPTION

Hercules Hattiesburg, MS

JOB NUMBER

860-61242-1

Eurofins Houston

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
11/29/2023 5:42:16 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Definitions/Glossary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Job ID: 860-61242-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-61242-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/10/2023 10:09 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

GC/MS VOA

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-13 (860-61242-2), MW-8 (860-61242-3) and DUP-01 (860-61242-5). Elevated reporting limits (RLs) are provided.

Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-130814 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260D: The continuing calibration verification (CCV) associated with batch 860-130814 recovered outside acceptance criteria, low biased, for Acrolein (-21.1%), Bromoform (-20.4%), Bromomethane (-20.2%) and Dichloro difluoromethane (-41.1%). A low level standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 860-130814 recovered above the upper control limit for 1,4-Dioxane, Isobutanol, Vinyl chloride, and Acetonitrile. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-130814/2).

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-130814 recovered outside control limits for the following analytes: 1,4-Dioxane and Tetrahydrofuran. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-17 (860-61242-4). Elevated reporting limits (RLs) are provided.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-23 (860-61242-6) and MW-21 (860-61242-8). Elevated reporting limits (RLs) are provided.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-17 (860-61242-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270E_LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-130871 and analytical batch 860-131054 recovered outside control limits for the following analyte(s): Pyridine. Pyridine has been

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Job ID: 860-61242-1 (Continued)

Laboratory: Eurofins Houston (Continued)

identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E_LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-130968 and analytical batch 860-131106 recovered outside control limits for the following analyte(s): alpha,alpha-Dimethyl phenethylamine, p-Phenylene diamine and 3,3'-Dimethylbenzidine. alpha,alpha-Dimethyl phenethylamine, p-Phenylene diamine and 3,3'-Dimethylbenzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E_LL: The following sample required a dilution due to the nature of the sample matrix: MW-23 (860-61242-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E_LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-23 (860-61242-6). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: The following samples were diluted due to the nature of the sample matrix: MW-17 (860-61242-4) and MW-23 (860-61242-6). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-17 (860-61242-4). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: The following sample required a dilution due to the nature of the sample matrix: MW-17 (860-61242-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E_LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-130871 and analytical batch 860-131054 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270E_LL: The following sample was diluted due to the nature of the sample matrix: MW-8 (860-61242-3). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: The following samples were diluted due to the nature of the sample matrix: DUP-01 (860-61242-5) and MW-21 (860-61242-8). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-130871 and analytical batch 860-131054 recovered outside control limits for the following analyte(s): p-Phenylene diamine and 3,3'-Dimethylbenzidine. p-Phenylene diamine and 3,3'-Dimethylbenzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E_LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-21 (860-61242-8). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: DUP-01 (860-61242-5). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: DUP-01 (860-61242-5). These results have been reported and qualified.

Method 8270E_QQQ: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-13

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Job ID: 860-61242-1 (Continued)

Laboratory: Eurofins Houston (Continued)

(860-61242-2), MW-8 (860-61242-3), MW-17 (860-61242-4), DUP-01 (860-61242-5), MW-23 (860-61242-6) and MW-21 (860-61242-8). Elevated reporting limits (RLs) are provided.

Method 8270E_QQQ: The following samples required a dilution due to the nature of the sample matrix: MW-13 (860-61242-2), MW-8 (860-61242-3), MW-17 (860-61242-4) and DUP-01 (860-61242-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: TB-05(110923)

Lab Sample ID: 860-61242-1

No Detections.

Client Sample ID: MW-13

Lab Sample ID: 860-61242-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1-Dichloroethene	1.10		1.00	0.738	ug/L	1			8260D	Total/NA
Chlorobenzene	21.6		1.00	0.455	ug/L	1			8260D	Total/NA
cis-1,2-Dichloroethene	0.882	J	1.00	0.457	ug/L	1			8260D	Total/NA
Ethylbenzene	0.700	J	1.00	0.385	ug/L	1			8260D	Total/NA
Methylene Chloride	3.26	J	5.00	1.73	ug/L	1			8260D	Total/NA
Tetrachloroethene	0.660	J	1.00	0.655	ug/L	1			8260D	Total/NA
Toluene	1.04		1.00	0.475	ug/L	1			8260D	Total/NA
Xylenes, Total	2.66	J	10.0	1.24	ug/L	1			8260D	Total/NA
m,p-Xylenes	0.00156	J	0.0100	0.00124	mg/L	1			8260D	Total/NA
o-Xylene	0.00110		0.00100	0.000502	mg/L	1			8260D	Total/NA
Benzene - DL	380		20.0	9.19	ug/L	20			8260D	Total/NA
Carbon tetrachloride - DL	1450		100	17.9	ug/L	20			8260D	Total/NA
Chloroform - DL	390		20.0	9.28	ug/L	20			8260D	Total/NA
1,2-Dichlorobenzene	0.370	J	2.00	0.296	ug/L	1			8270E LL	Total/NA
1,4-Dichlorobenzene	0.468	J	2.00	0.428	ug/L	1			8270E LL	Total/NA
o,o',o"-Triethylphosphorothioate	63.8		8.00	0.0579	ug/L	1			8270E LL	Total/NA
Phenol	0.905	J	4.00	0.202	ug/L	1			8270E LL	Total/NA
1,4-Dioxane	200		33.7	8.84	ug/L	50			8270E	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 860-61242-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.704	J	1.00	0.417	ug/L	1			8260D	Total/NA
Chlorobenzene	91.3		1.00	0.455	ug/L	1			8260D	Total/NA
cis-1,2-Dichloroethene	0.999	J	1.00	0.457	ug/L	1			8260D	Total/NA
Cumene (isopropylbenzene)	0.881	J	1.00	0.592	ug/L	1			8260D	Total/NA
Cyclohexane	58.3		5.00	1.29	ug/L	1			8260D	Total/NA
Ethylbenzene	6.94		1.00	0.385	ug/L	1			8260D	Total/NA
Methylene Chloride	149		5.00	1.73	ug/L	1			8260D	Total/NA
Tetrachloroethene	2.22		1.00	0.655	ug/L	1			8260D	Total/NA
Toluene	2.10		1.00	0.475	ug/L	1			8260D	Total/NA
Xylenes, Total	9.98	J	10.0	1.24	ug/L	1			8260D	Total/NA
m,p-Xylenes	0.00526	J	0.0100	0.00124	mg/L	1			8260D	Total/NA
o-Xylene	0.00472		0.00100	0.000502	mg/L	1			8260D	Total/NA
Benzene - DL	437		20.0	9.19	ug/L	20			8260D	Total/NA
Carbon tetrachloride - DL	2070		100	17.9	ug/L	20			8260D	Total/NA
Chloroform - DL	377		20.0	9.28	ug/L	20			8260D	Total/NA
o,o',o"-Triethylphosphorothioate	649		80.0	0.579	ug/L	10			8270E LL	Total/NA
1,4-Dioxane	574		65.6	17.2	ug/L	100			8270E	Total/NA

Client Sample ID: MW-17

Lab Sample ID: 860-61242-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1,1,2-Tetrachloroethane	2.48		1.00	0.644	ug/L	1			8260D	Total/NA
1,1-Dichloroethene	1.72		1.00	0.738	ug/L	1			8260D	Total/NA
1,2,4-Trimethylbenzene	2.56		1.00	0.417	ug/L	1			8260D	Total/NA
1,3,5-Trimethylbenzene	0.788	J	1.00	0.411	ug/L	1			8260D	Total/NA
4-Methyl-2-pentanone	38.9	J	50.0	7.49	ug/L	1			8260D	Total/NA
Acetone	302		100	3.07	ug/L	1			8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-17 (Continued)

Lab Sample ID: 860-61242-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	2.81	J	5.00	1.65	ug/L	1		8260D	Total/NA
Chloroethane	3.43	J	10.0	1.98	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	17.3		1.00	0.457	ug/L	1		8260D	Total/NA
Cumene (isopropylbenzene)	22.7		1.00	0.592	ug/L	1		8260D	Total/NA
Ethylbenzene	29.0		1.00	0.385	ug/L	1		8260D	Total/NA
Methylene Chloride	13.8		5.00	1.73	ug/L	1		8260D	Total/NA
Propylbenzene	0.621	J	1.00	0.429	ug/L	1		8260D	Total/NA
Tetrachloroethene	22.5		1.00	0.655	ug/L	1		8260D	Total/NA
Tetrahydrofuran	33.8		10.0	1.83	ug/L	1		8260D	Total/NA
Toluene	15.5		1.00	0.475	ug/L	1		8260D	Total/NA
Trichloroethene	2.58	J	5.00	0.791	ug/L	1		8260D	Total/NA
Vinyl chloride	0.701	J	2.00	0.428	ug/L	1		8260D	Total/NA
Xylenes, Total	61.0		10.0	1.24	ug/L	1		8260D	Total/NA
m,p-Xylenes	0.0364		0.0100	0.00124	mg/L	1		8260D	Total/NA
o-Xylene	0.0246		0.00100	0.000502	mg/L	1		8260D	Total/NA
Benzene - DL	323		10.0	4.60	ug/L	10		8260D	Total/NA
Chlorobenzene - DL	787		10.0	4.55	ug/L	10		8260D	Total/NA
Chloroform - DL2	2840		100	46.4	ug/L	100		8260D	Total/NA
Cyclohexane - DL2	1410		500	129	ug/L	100		8260D	Total/NA
Carbon tetrachloride - DL3	49100		2500	448	ug/L	500		8260D	Total/NA
1,2-Dichlorobenzene	6.34	J	20.0	2.96	ug/L	10		8270E LL	Total/NA
1,4-Dichlorobenzene	10.1	J	20.0	4.28	ug/L	10		8270E LL	Total/NA
Hexachloroethane	6.80	J	20.0	1.40	ug/L	10		8270E LL	Total/NA
o,o',o"-Triethylphosphorothioate - DL	903		800	5.79	ug/L	100		8270E LL	Total/NA
1,4-Dioxane	93.6		33.1	8.69	ug/L	50		8270E	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 860-61242-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.673	J	1.00	0.417	ug/L	1		8260D	Total/NA
Acetone	6.49	J	100	3.07	ug/L	1		8260D	Total/NA
Chlorobenzene	88.8		1.00	0.455	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.906	J	1.00	0.457	ug/L	1		8260D	Total/NA
Cumene (isopropylbenzene)	0.872	J	1.00	0.592	ug/L	1		8260D	Total/NA
Cyclohexane	49.1		5.00	1.29	ug/L	1		8260D	Total/NA
Ethylbenzene	6.66		1.00	0.385	ug/L	1		8260D	Total/NA
Methylene Chloride	147		5.00	1.73	ug/L	1		8260D	Total/NA
Tetrachloroethene	2.05		1.00	0.655	ug/L	1		8260D	Total/NA
Toluene	1.97		1.00	0.475	ug/L	1		8260D	Total/NA
Xylenes, Total	9.71	J	10.0	1.24	ug/L	1		8260D	Total/NA
m,p-Xylenes	0.00516	J	0.0100	0.00124	mg/L	1		8260D	Total/NA
o-Xylene	0.00455		0.00100	0.000502	mg/L	1		8260D	Total/NA
Benzene - DL	416		20.0	9.19	ug/L	20		8260D	Total/NA
Carbon tetrachloride - DL	2030		100	17.9	ug/L	20		8260D	Total/NA
Chloroform - DL	380		20.0	9.28	ug/L	20		8260D	Total/NA
o,o',o"-Triethylphosphorothioate	671		80.0	0.579	ug/L	10		8270E LL	Total/NA
Pentachlorophenol	10.1	J	20.0	4.41	ug/L	10		8270E LL	Total/NA
1,4-Dioxane	559		33.3	8.75	ug/L	50		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-23

Lab Sample ID: 860-61242-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6860		50.0	23.0	ug/L	50		8260D	Total/NA
Chlorobenzene	204		50.0	22.8	ug/L	50		8260D	Total/NA
1,2-Dichlorobenzene	1.55	J	10.0	1.48	ug/L	5		8270E LL	Total/NA
Fluorene	1.48	J	10.0	1.03	ug/L	5		8270E LL	Total/NA
Naphthalene	16.3		10.0	2.11	ug/L	5		8270E LL	Total/NA
o,o',o"-Triethylphosphorothioate	8.68	J	40.0	0.290	ug/L	5		8270E LL	Total/NA
Phenanthrene	2.07	J	10.0	0.882	ug/L	5		8270E LL	Total/NA
Phenol	52.2		20.0	1.01	ug/L	5		8270E LL	Total/NA
1,1'-Biphenyl - DL	343		100	21.4	ug/L	50		8270E LL	Total/NA
Diphenyl ether - DL	1700		400	18.2	ug/L	50		8270E LL	Total/NA
1,4-Dioxane	294		33.3	8.75	ug/L	50		8270E	Total/NA

Client Sample ID: FB-01(110923)

Lab Sample ID: 860-61242-7

No Detections.

Client Sample ID: MW-21

Lab Sample ID: 860-61242-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6920		50.0	23.0	ug/L	50		8260D	Total/NA
Chlorobenzene	234		50.0	22.8	ug/L	50		8260D	Total/NA
Chloroform	24.4	J	50.0	23.2	ug/L	50		8260D	Total/NA
Cumene (isopropylbenzene)	54.1		50.0	29.6	ug/L	50		8260D	Total/NA
Tetrahydrofuran	228	J	500	91.7	ug/L	50		8260D	Total/NA
Toluene	3040		50.0	23.8	ug/L	50		8260D	Total/NA
1,2-Dichlorobenzene	1.52	J	10.0	1.48	ug/L	5		8270E LL	Total/NA
1,4-Dichlorobenzene	2.43	J	10.0	2.14	ug/L	5		8270E LL	Total/NA
2-Methylphenol	8.19	J	10.0	0.797	ug/L	5		8270E LL	Total/NA
3 & 4 Methylphenol	27.0		10.0	0.814	ug/L	5		8270E LL	Total/NA
Naphthalene	17.4		10.0	2.11	ug/L	5		8270E LL	Total/NA
Phenol	52.4		20.0	1.01	ug/L	5		8270E LL	Total/NA
1,1'-Biphenyl - DL	541		100	21.4	ug/L	50		8270E LL	Total/NA
Diphenyl ether - DL	2300		400	18.2	ug/L	50		8270E LL	Total/NA
1,4-Dioxane	258		33.3	8.75	ug/L	50		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: TB-05(110923)

Lab Sample ID: 860-61242-1

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 22:35	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 22:35	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 22:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 22:35	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 22:35	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 22:35	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 22:35	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 22:35	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 22:35	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 22:35	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 22:35	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 22:35	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 22:35	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 22:35	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 22:35	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 22:35	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 22:35	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 22:35	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 22:35	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 22:35	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 22:35	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 22:35	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 22:35	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 22:35	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 22:35	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 22:35	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 22:35	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 22:35	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 22:35	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 22:35	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 22:35	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 22:35	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 22:35	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 22:35	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 22:35	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 22:35	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 22:35	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 22:35	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 22:35	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 22:35	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 22:35	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 22:35	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 22:35	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/10/23 22:35	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 22:35	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 22:35	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 22:35	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 22:35	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 22:35	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: TB-05(110923)

Lab Sample ID: 860-61242-1

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 22:35	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 22:35	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 22:35	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 22:35	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 22:35	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 22:35	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 22:35	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 22:35	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 22:35	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 22:35	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 22:35	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 22:35	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 22:35	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 22:35	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 22:35	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 22:35	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 22:35	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 22:35	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/10/23 22:35	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/10/23 22:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 144		11/10/23 22:35	1
4-Bromofluorobenzene (Surr)	97		74 - 124		11/10/23 22:35	1
Dibromofluoromethane (Surr)	99		75 - 131		11/10/23 22:35	1
Toluene-d8 (Surr)	98		80 - 120		11/10/23 22:35	1

Client Sample ID: MW-13

Lab Sample ID: 860-61242-2

Date Collected: 11/09/23 09:16

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/11/23 01:19	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/11/23 01:19	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/11/23 01:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/11/23 01:19	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/11/23 01:19	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/11/23 01:19	1
1,1-Dichloroethene	1.10		1.00	0.738	ug/L			11/11/23 01:19	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/11/23 01:19	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/11/23 01:19	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/11/23 01:19	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/11/23 01:19	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/11/23 01:19	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/11/23 01:19	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/11/23 01:19	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/11/23 01:19	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/11/23 01:19	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/11/23 01:19	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-13

Lab Sample ID: 860-61242-2

Date Collected: 11/09/23 09:16

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/11/23 01:19	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/11/23 01:19	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/11/23 01:19	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/11/23 01:19	1
Acetone	<3.07	U	100	3.07	ug/L			11/11/23 01:19	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/11/23 01:19	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/11/23 01:19	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/11/23 01:19	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/11/23 01:19	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/11/23 01:19	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/11/23 01:19	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/11/23 01:19	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/11/23 01:19	1
Chlorobenzene	21.6		1.00	0.455	ug/L			11/11/23 01:19	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/11/23 01:19	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/11/23 01:19	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/11/23 01:19	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/11/23 01:19	1
cis-1,2-Dichloroethene	0.882 J		1.00	0.457	ug/L			11/11/23 01:19	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/11/23 01:19	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/11/23 01:19	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/11/23 01:19	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/11/23 01:19	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/11/23 01:19	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/11/23 01:19	1
Ethylbenzene	0.700 J		1.00	0.385	ug/L			11/11/23 01:19	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/11/23 01:19	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/11/23 01:19	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/11/23 01:19	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/11/23 01:19	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/11/23 01:19	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/11/23 01:19	1
Methylene Chloride	3.26 J		5.00	1.73	ug/L			11/11/23 01:19	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/11/23 01:19	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/11/23 01:19	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/11/23 01:19	1
Tetrachloroethene	0.660 J		1.00	0.655	ug/L			11/11/23 01:19	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/11/23 01:19	1
Toluene	1.04		1.00	0.475	ug/L			11/11/23 01:19	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/11/23 01:19	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/11/23 01:19	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/11/23 01:19	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/11/23 01:19	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/11/23 01:19	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/11/23 01:19	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/11/23 01:19	1
Xylenes, Total	2.66 J		10.0	1.24	ug/L			11/11/23 01:19	1
m,p-Xylenes	0.00156 J		0.0100	0.00124	mg/L			11/11/23 01:19	1
o-Xylene	0.00110		0.00100	0.000502	mg/L			11/11/23 01:19	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-13

Lab Sample ID: 860-61242-2

Date Collected: 11/09/23 09:16

Matrix: Water

Date Received: 11/10/23 10:09

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		11/11/23 01:19	1
4-Bromofluorobenzene (Surr)	98		74 - 124		11/11/23 01:19	1
Dibromofluoromethane (Surr)	98		75 - 131		11/11/23 01:19	1
Toluene-d8 (Surr)	98		80 - 120		11/11/23 01:19	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	380		20.0	9.19	ug/L			11/13/23 23:58	20
Carbon tetrachloride	1450		100	17.9	ug/L			11/13/23 23:58	20
Chloroform	390		20.0	9.28	ug/L			11/13/23 23:58	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		63 - 144		11/13/23 23:58	20
4-Bromofluorobenzene (Surr)	112		74 - 124		11/13/23 23:58	20
Dibromofluoromethane (Surr)	115		75 - 131		11/13/23 23:58	20
Toluene-d8 (Surr)	104		80 - 120		11/13/23 23:58	20

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/14/23 06:48	11/18/23 11:16	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/14/23 06:48	11/18/23 11:16	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/14/23 06:48	11/18/23 11:16	1
1,2-Dichlorobenzene	0.370	J	2.00	0.296	ug/L		11/14/23 06:48	11/18/23 11:16	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/14/23 06:48	11/18/23 11:16	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/14/23 06:48	11/18/23 11:16	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/14/23 06:48	11/18/23 11:16	1
1,4-Dichlorobenzene	0.468	J	2.00	0.428	ug/L		11/14/23 06:48	11/18/23 11:16	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/14/23 06:48	11/18/23 11:16	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/18/23 11:16	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/14/23 06:48	11/18/23 11:16	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/14/23 06:48	11/18/23 11:16	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/14/23 06:48	11/18/23 11:16	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/18/23 11:16	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/14/23 06:48	11/18/23 11:16	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/18/23 11:16	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/14/23 06:48	11/18/23 11:16	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/14/23 06:48	11/18/23 11:16	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/18/23 11:16	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/18/23 11:16	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/14/23 06:48	11/18/23 11:16	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/14/23 06:48	11/18/23 11:16	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/14/23 06:48	11/18/23 11:16	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/14/23 06:48	11/18/23 11:16	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/18/23 11:16	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/14/23 06:48	11/18/23 11:16	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/14/23 06:48	11/18/23 11:16	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/18/23 11:16	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/18/23 11:16	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/14/23 06:48	11/18/23 11:16	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/14/23 06:48	11/18/23 11:16	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/14/23 06:48	11/18/23 11:16	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-13

Lab Sample ID: 860-61242-2

Date Collected: 11/09/23 09:16

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/14/23 06:48	11/18/23 11:16	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/14/23 06:48	11/18/23 11:16	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/14/23 06:48	11/18/23 11:16	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/14/23 06:48	11/18/23 11:16	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/14/23 06:48	11/18/23 11:16	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/14/23 06:48	11/18/23 11:16	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/14/23 06:48	11/18/23 11:16	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/14/23 06:48	11/18/23 11:16	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/18/23 11:16	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/14/23 06:48	11/18/23 11:16	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/14/23 06:48	11/18/23 11:16	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/14/23 06:48	11/18/23 11:16	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/14/23 06:48	11/18/23 11:16	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/18/23 11:16	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/14/23 06:48	11/18/23 11:16	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/14/23 06:48	11/18/23 11:16	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/14/23 06:48	11/18/23 11:16	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/14/23 06:48	11/18/23 11:16	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/18/23 11:16	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/18/23 11:16	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/18/23 11:16	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/14/23 06:48	11/18/23 11:16	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/18/23 11:16	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/14/23 06:48	11/18/23 11:16	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/14/23 06:48	11/18/23 11:16	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/14/23 06:48	11/18/23 11:16	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/14/23 06:48	11/18/23 11:16	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/14/23 06:48	11/18/23 11:16	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/18/23 11:16	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/18/23 11:16	1
Diallyl	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/18/23 11:16	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/18/23 11:16	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/14/23 06:48	11/18/23 11:16	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/14/23 06:48	11/18/23 11:16	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/14/23 06:48	11/18/23 11:16	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/18/23 11:16	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/14/23 06:48	11/18/23 11:16	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/14/23 06:48	11/18/23 11:16	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/14/23 06:48	11/18/23 11:16	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/14/23 06:48	11/18/23 11:16	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/14/23 06:48	11/18/23 11:16	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/18/23 11:16	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/14/23 06:48	11/18/23 11:16	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/14/23 06:48	11/18/23 11:16	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/18/23 11:16	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/14/23 06:48	11/18/23 11:16	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/18/23 11:16	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/14/23 06:48	11/18/23 11:16	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/14/23 06:48	11/18/23 11:16	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-13

Lab Sample ID: 860-61242-2

Date Collected: 11/09/23 09:16

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/14/23 06:48	11/18/23 11:16	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/14/23 06:48	11/18/23 11:16	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/14/23 06:48	11/18/23 11:16	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/14/23 06:48	11/18/23 11:16	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/18/23 11:16	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/14/23 06:48	11/18/23 11:16	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/14/23 06:48	11/18/23 11:16	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/14/23 06:48	11/18/23 11:16	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/14/23 06:48	11/18/23 11:16	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/14/23 06:48	11/18/23 11:16	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/14/23 06:48	11/18/23 11:16	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/14/23 06:48	11/18/23 11:16	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/18/23 11:16	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/14/23 06:48	11/18/23 11:16	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/14/23 06:48	11/18/23 11:16	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/14/23 06:48	11/18/23 11:16	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/18/23 11:16	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/18/23 11:16	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/18/23 11:16	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/18/23 11:16	1
o,o',o"-Triethylphosphorothioate	63.8		8.00	0.0579	ug/L		11/14/23 06:48	11/18/23 11:16	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/14/23 06:48	11/18/23 11:16	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/14/23 06:48	11/18/23 11:16	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/14/23 06:48	11/18/23 11:16	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/14/23 06:48	11/18/23 11:16	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/14/23 06:48	11/18/23 11:16	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/14/23 06:48	11/18/23 11:16	1
Phenol	0.905	J	4.00	0.202	ug/L		11/14/23 06:48	11/18/23 11:16	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/14/23 06:48	11/18/23 11:16	1
p-Phenylene diamine	<10.0	U *-	10.0	10.0	ug/L		11/14/23 06:48	11/18/23 11:16	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/14/23 06:48	11/18/23 11:16	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/18/23 11:16	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/14/23 06:48	11/18/23 11:16	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/14/23 06:48	11/18/23 11:16	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/14/23 06:48	11/18/23 11:16	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/14/23 06:48	11/18/23 11:16	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/14/23 06:48	11/18/23 11:16	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/18/23 11:16	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/18/23 11:16	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/14/23 06:48	11/18/23 11:16	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/14/23 06:48	11/18/23 11:16	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/18/23 11:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		31 - 132	11/14/23 06:48	11/18/23 11:16	1
2-Fluorobiphenyl	61		40 - 130	11/14/23 06:48	11/18/23 11:16	1
2-Fluorophenol (Surr)	31		21 - 114	11/14/23 06:48	11/18/23 11:16	1
Nitrobenzene-d5 (Surr)	41		37 - 130	11/14/23 06:48	11/18/23 11:16	1
Phenol-d5 (Surr)	21		16 - 117	11/14/23 06:48	11/18/23 11:16	1
p-Terphenyl-d14	112		20 - 141	11/14/23 06:48	11/18/23 11:16	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-13

Date Collected: 11/09/23 09:16

Date Received: 11/10/23 10:09

Lab Sample ID: 860-61242-2

Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	200		33.7	8.84	ug/L		11/14/23 10:57	11/18/23 02:23	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	130		37 - 133				11/14/23 10:57	11/18/23 02:23	50

Client Sample ID: MW-8

Date Collected: 11/09/23 10:25

Date Received: 11/10/23 10:09

Lab Sample ID: 860-61242-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/11/23 01:40	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/11/23 01:40	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/11/23 01:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/11/23 01:40	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/11/23 01:40	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/11/23 01:40	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/11/23 01:40	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/11/23 01:40	1
1,2,4-Trimethylbenzene	0.704	J	1.00	0.417	ug/L			11/11/23 01:40	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/11/23 01:40	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/11/23 01:40	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/11/23 01:40	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/11/23 01:40	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/11/23 01:40	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/11/23 01:40	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/11/23 01:40	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/11/23 01:40	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/11/23 01:40	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/11/23 01:40	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/11/23 01:40	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/11/23 01:40	1
Acetone	<3.07	U	100	3.07	ug/L			11/11/23 01:40	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/11/23 01:40	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/11/23 01:40	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/11/23 01:40	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/11/23 01:40	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/11/23 01:40	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/11/23 01:40	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/11/23 01:40	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/11/23 01:40	1
Chlorobenzene	91.3		1.00	0.455	ug/L			11/11/23 01:40	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/11/23 01:40	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/11/23 01:40	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/11/23 01:40	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/11/23 01:40	1
cis-1,2-Dichloroethene	0.999	J	1.00	0.457	ug/L			11/11/23 01:40	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/11/23 01:40	1
Cumene (isopropylbenzene)	0.881	J	1.00	0.592	ug/L			11/11/23 01:40	1
Cyclohexane	58.3		5.00	1.29	ug/L			11/11/23 01:40	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-8

Lab Sample ID: 860-61242-3

Date Collected: 11/09/23 10:25

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/11/23 01:40	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/11/23 01:40	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/11/23 01:40	1
Ethylbenzene	6.94		1.00	0.385	ug/L			11/11/23 01:40	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/11/23 01:40	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/11/23 01:40	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/11/23 01:40	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/11/23 01:40	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/11/23 01:40	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/11/23 01:40	1
Methylene Chloride	149		5.00	1.73	ug/L			11/11/23 01:40	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/11/23 01:40	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/11/23 01:40	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/11/23 01:40	1
Tetrachloroethene	2.22		1.00	0.655	ug/L			11/11/23 01:40	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/11/23 01:40	1
Toluene	2.10		1.00	0.475	ug/L			11/11/23 01:40	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/11/23 01:40	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/11/23 01:40	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/11/23 01:40	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/11/23 01:40	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/11/23 01:40	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/11/23 01:40	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/11/23 01:40	1
Xylenes, Total	9.98	J	10.0	1.24	ug/L			11/11/23 01:40	1
m,p-Xylenes	0.00526	J	0.0100	0.00124	mg/L			11/11/23 01:40	1
o-Xylene	0.00472		0.00100	0.000502	mg/L			11/11/23 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		11/11/23 01:40	1
4-Bromofluorobenzene (Surr)	96		74 - 124		11/11/23 01:40	1
Dibromofluoromethane (Surr)	98		75 - 131		11/11/23 01:40	1
Toluene-d8 (Surr)	98		80 - 120		11/11/23 01:40	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	437		20.0	9.19	ug/L			11/14/23 00:17	20
Carbon tetrachloride	2070		100	17.9	ug/L			11/14/23 00:17	20
Chloroform	377		20.0	9.28	ug/L			11/14/23 00:17	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		63 - 144		11/14/23 00:17	20
4-Bromofluorobenzene (Surr)	108		74 - 124		11/14/23 00:17	20
Dibromofluoromethane (Surr)	112		75 - 131		11/14/23 00:17	20
Toluene-d8 (Surr)	105		80 - 120		11/14/23 00:17	20

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<4.28	U	20.0	4.28	ug/L		11/14/23 06:50	11/18/23 11:57	10
1,2,4,5-Tetrachlorobenzene	<6.72	U	20.0	6.72	ug/L		11/14/23 06:50	11/18/23 11:57	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-8

Lab Sample ID: 860-61242-3

Date Collected: 11/09/23 10:25

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<6.80	U	20.0	6.80	ug/L		11/14/23 06:50	11/18/23 11:57	10
1,2-Dichlorobenzene	<2.96	U	20.0	2.96	ug/L		11/14/23 06:50	11/18/23 11:57	10
1,3,5-Trinitrobenzene	<14.3	U	20.0	14.3	ug/L		11/14/23 06:50	11/18/23 11:57	10
1,3-Dichlorobenzene	<3.50	U	20.0	3.50	ug/L		11/14/23 06:50	11/18/23 11:57	10
1,3-Dinitrobenzene	<1.12	U	20.0	1.12	ug/L		11/14/23 06:50	11/18/23 11:57	10
1,4-Dichlorobenzene	<4.28	U	20.0	4.28	ug/L		11/14/23 06:50	11/18/23 11:57	10
1,4-Naphthoquinone	<18.5	U	80.0	18.5	ug/L		11/14/23 06:50	11/18/23 11:57	10
1-Naphthylamine	<2.32	U	20.0	2.32	ug/L		11/14/23 06:50	11/18/23 11:57	10
2,2'-oxybis[1-chloropropane]	<1.39	U	20.0	1.39	ug/L		11/14/23 06:50	11/18/23 11:57	10
2,3,4,6-Tetrachlorophenol	<1.74	U	20.0	1.74	ug/L		11/14/23 06:50	11/18/23 11:57	10
2,4,5-Trichlorophenol	<1.08	U	20.0	1.08	ug/L		11/14/23 06:50	11/18/23 11:57	10
2,4,6-Trichlorophenol	<1.35	U	20.0	1.35	ug/L		11/14/23 06:50	11/18/23 11:57	10
2,4-Dichlorophenol	<1.15	U	20.0	1.15	ug/L		11/14/23 06:50	11/18/23 11:57	10
2,4-Dimethylphenol	<1.48	U	20.0	1.48	ug/L		11/14/23 06:50	11/18/23 11:57	10
2,4-Dinitrophenol	<14.6	U	80.0	14.6	ug/L		11/14/23 06:50	11/18/23 11:57	10
2,4-Dinitrotoluene	<1.27	U	20.0	1.27	ug/L		11/14/23 06:50	11/18/23 11:57	10
2,6-Dichlorophenol	<1.26	U	20.0	1.26	ug/L		11/14/23 06:50	11/18/23 11:57	10
2,6-Dinitrotoluene	<1.99	U	20.0	1.99	ug/L		11/14/23 06:50	11/18/23 11:57	10
2-Acetylaminofluorene	<15.2	U	80.0	15.2	ug/L		11/14/23 06:50	11/18/23 11:57	10
2-Chloronaphthalene	<10.9	U	80.0	10.9	ug/L		11/14/23 06:50	11/18/23 11:57	10
2-Chlorophenol	<0.135	U	20.0	0.135	ug/L		11/14/23 06:50	11/18/23 11:57	10
2-Methylnaphthalene	<4.80	U	20.0	4.80	ug/L		11/14/23 06:50	11/18/23 11:57	10
2-Methylphenol	<1.59	U	20.0	1.59	ug/L		11/14/23 06:50	11/18/23 11:57	10
2-Naphthylamine	<5.95	U	80.0	5.95	ug/L		11/14/23 06:50	11/18/23 11:57	10
2-Nitroaniline	<1.63	U	40.0	1.63	ug/L		11/14/23 06:50	11/18/23 11:57	10
2-Nitrophenol	<1.35	U	20.0	1.35	ug/L		11/14/23 06:50	11/18/23 11:57	10
2-Picoline	<2.15	U	20.0	2.15	ug/L		11/14/23 06:50	11/18/23 11:57	10
2-Toluidine	<9.34	U	80.0	9.34	ug/L		11/14/23 06:50	11/18/23 11:57	10
3 & 4 Methylphenol	<1.63	U	20.0	1.63	ug/L		11/14/23 06:50	11/18/23 11:57	10
3,3'-Dichlorobenzidine	<2.20	U	40.0	2.20	ug/L		11/14/23 06:50	11/18/23 11:57	10
3,3'-Dimethylbenzidine	<4.44	U *	80.0	4.44	ug/L		11/14/23 06:50	11/18/23 11:57	10
3-Methylcholanthrene	<1.59	U	80.0	1.59	ug/L		11/14/23 06:50	11/18/23 11:57	10
3-Nitroaniline	<3.44	U	20.0	3.44	ug/L		11/14/23 06:50	11/18/23 11:57	10
4,6-Dinitro-2-methylphenol	<7.36	U	80.0	7.36	ug/L		11/14/23 06:50	11/18/23 11:57	10
4-Aminobiphenyl	<2.97	U	80.0	2.97	ug/L		11/14/23 06:50	11/18/23 11:57	10
4-Bromophenyl phenyl ether	<1.67	U	20.0	1.67	ug/L		11/14/23 06:50	11/18/23 11:57	10
4-Chloro-3-methylphenol	<1.57	U	20.0	1.57	ug/L		11/14/23 06:50	11/18/23 11:57	10
4-Chloroaniline	<1.49	U	40.0	1.49	ug/L		11/14/23 06:50	11/18/23 11:57	10
4-Chlorophenyl phenyl ether	<2.32	U	20.0	2.32	ug/L		11/14/23 06:50	11/18/23 11:57	10
4-Nitroaniline	<2.47	U	40.0	2.47	ug/L		11/14/23 06:50	11/18/23 11:57	10
4-Nitroquinoline-1-oxide	<21.5	U	40.0	21.5	ug/L		11/14/23 06:50	11/18/23 11:57	10
7,12-Dimethylbenz(a)anthracene	<0.610	U	80.0	0.610	ug/L		11/14/23 06:50	11/18/23 11:57	10
Acenaphthene	<2.08	U	20.0	2.08	ug/L		11/14/23 06:50	11/18/23 11:57	10
Acenaphthylene	<2.15	U	20.0	2.15	ug/L		11/14/23 06:50	11/18/23 11:57	10
Acetophenone	<2.25	U	40.0	2.25	ug/L		11/14/23 06:50	11/18/23 11:57	10
alpha,alpha-Dimethyl phenethylamine	<40.0	U	40.0	40.0	ug/L		11/14/23 06:50	11/18/23 11:57	10
Aniline	<3.14	U	40.0	3.14	ug/L		11/14/23 06:50	11/18/23 11:57	10
Anthracene	<1.54	U	20.0	1.54	ug/L		11/14/23 06:50	11/18/23 11:57	10
Aramite, Total	<6.70	U	40.0	6.70	ug/L		11/14/23 06:50	11/18/23 11:57	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-8

Lab Sample ID: 860-61242-3

Date Collected: 11/09/23 10:25

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<1.50	U	20.0	1.50	ug/L		11/14/23 06:50	11/18/23 11:57	10
Benzo[a]pyrene	<1.48	U	20.0	1.48	ug/L		11/14/23 06:50	11/18/23 11:57	10
Benzo[b]fluoranthene	<2.10	U	20.0	2.10	ug/L		11/14/23 06:50	11/18/23 11:57	10
Benzo[g,h,i]perylene	<1.43	U	20.0	1.43	ug/L		11/14/23 06:50	11/18/23 11:57	10
Benzo[k]fluoranthene	<1.66	U	20.0	1.66	ug/L		11/14/23 06:50	11/18/23 11:57	10
Benzyl alcohol	<45.0	U	80.0	45.0	ug/L		11/14/23 06:50	11/18/23 11:57	10
Bis(2-chloroethoxy)methane	<1.70	U	20.0	1.70	ug/L		11/14/23 06:50	11/18/23 11:57	10
Bis(2-chloroethyl)ether	<2.78	U	20.0	2.78	ug/L		11/14/23 06:50	11/18/23 11:57	10
Bis(2-ethylhexyl) phthalate	<2.25	U	20.0	2.25	ug/L		11/14/23 06:50	11/18/23 11:57	10
Butyl benzyl phthalate	<1.50	U	20.0	1.50	ug/L		11/14/23 06:50	11/18/23 11:57	10
Chrysene	<1.59	U	20.0	1.59	ug/L		11/14/23 06:50	11/18/23 11:57	10
Diallate	<6.02	U	80.0	6.02	ug/L		11/14/23 06:50	11/18/23 11:57	10
Dibenz(a,h)anthracene	<1.48	U	20.0	1.48	ug/L		11/14/23 06:50	11/18/23 11:57	10
Dibenzofuran	<3.36	U	20.0	3.36	ug/L		11/14/23 06:50	11/18/23 11:57	10
Diethyl phthalate	<1.18	U	20.0	1.18	ug/L		11/14/23 06:50	11/18/23 11:57	10
Dimethoate	<17.0	U	80.0	17.0	ug/L		11/14/23 06:50	11/18/23 11:57	10
Dimethyl phthalate	<1.43	U	20.0	1.43	ug/L		11/14/23 06:50	11/18/23 11:57	10
Di-n-butyl phthalate	<8.00	U	20.0	8.00	ug/L		11/14/23 06:50	11/18/23 11:57	10
Di-n-octyl phthalate	<1.69	U	20.0	1.69	ug/L		11/14/23 06:50	11/18/23 11:57	10
Dinoseb	<20.0	U	40.0	20.0	ug/L		11/14/23 06:50	11/18/23 11:57	10
Diphenyl ether	<3.64	U	80.0	3.64	ug/L		11/14/23 06:50	11/18/23 11:57	10
Disulfoton	<13.9	U	80.0	13.9	ug/L		11/14/23 06:50	11/18/23 11:57	10
Ethyl methanesulfonate	<13.8	U	40.0	13.8	ug/L		11/14/23 06:50	11/18/23 11:57	10
Ethyl Parathion	<14.1	U	40.0	14.1	ug/L		11/14/23 06:50	11/18/23 11:57	10
Famphur	<80.0	U	80.0	80.0	ug/L		11/14/23 06:50	11/18/23 11:57	10
Fluoranthene	<1.48	U	20.0	1.48	ug/L		11/14/23 06:50	11/18/23 11:57	10
Fluorene	<2.05	U	20.0	2.05	ug/L		11/14/23 06:50	11/18/23 11:57	10
Hexachlorobenzene	<1.26	U	20.0	1.26	ug/L		11/14/23 06:50	11/18/23 11:57	10
Hexachlorobutadiene	<2.52	U	20.0	2.52	ug/L		11/14/23 06:50	11/18/23 11:57	10
Hexachlorocyclopentadiene	<4.31	U	20.0	4.31	ug/L		11/14/23 06:50	11/18/23 11:57	10
Hexachloroethane	<1.40	U	20.0	1.40	ug/L		11/14/23 06:50	11/18/23 11:57	10
Hexachloropropene	<2.13	U	40.0	2.13	ug/L		11/14/23 06:50	11/18/23 11:57	10
Indeno[1,2,3-cd]pyrene	<8.52	U	20.0	8.52	ug/L		11/14/23 06:50	11/18/23 11:57	10
Isophorone	<1.68	U	20.0	1.68	ug/L		11/14/23 06:50	11/18/23 11:57	10
Isosafrole	<24.6	U	60.0	24.6	ug/L		11/14/23 06:50	11/18/23 11:57	10
Methapyrilene	<1.81	U	20.0	1.81	ug/L		11/14/23 06:50	11/18/23 11:57	10
Methyl methanesulfonate	<0.610	U	20.0	0.610	ug/L		11/14/23 06:50	11/18/23 11:57	10
Methyl parathion	<16.4	U	40.0	16.4	ug/L		11/14/23 06:50	11/18/23 11:57	10
Naphthalene	<4.23	U	20.0	4.23	ug/L		11/14/23 06:50	11/18/23 11:57	10
Nitrobenzene	<9.34	U	20.0	9.34	ug/L		11/14/23 06:50	11/18/23 11:57	10
N-Nitro-o-toluidine	<13.1	U	80.0	13.1	ug/L		11/14/23 06:50	11/18/23 11:57	10
N-Nitrosodiethylamine	<15.4	U	40.0	15.4	ug/L		11/14/23 06:50	11/18/23 11:57	10
N-Nitrosodimethylamine	<1.26	U	20.0	1.26	ug/L		11/14/23 06:50	11/18/23 11:57	10
N-Nitrosodi-n-butylamine	<15.4	U	20.0	15.4	ug/L		11/14/23 06:50	11/18/23 11:57	10
N-Nitrosodi-n-propylamine	<1.61	U	20.0	1.61	ug/L		11/14/23 06:50	11/18/23 11:57	10
N-Nitrosodiphenylamine	<1.55	U	20.0	1.55	ug/L		11/14/23 06:50	11/18/23 11:57	10
N-Nitrosomethylethylamine	<1.99	U	20.0	1.99	ug/L		11/14/23 06:50	11/18/23 11:57	10
N-Nitrosomorpholine	<14.4	U	40.0	14.4	ug/L		11/14/23 06:50	11/18/23 11:57	10
N-Nitrosopiperidine	<14.4	U	40.0	14.4	ug/L		11/14/23 06:50	11/18/23 11:57	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-8

Lab Sample ID: 860-61242-3

Date Collected: 11/09/23 10:25

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	<13.8	U	40.0	13.8	ug/L		11/14/23 06:50	11/18/23 11:57	10
o,o',o''-Triethylphosphorothioate	649		80.0	0.579	ug/L		11/14/23 06:50	11/18/23 11:57	10
p-Dimethylamino azobenzene	<0.579	U	80.0	0.579	ug/L		11/14/23 06:50	11/18/23 11:57	10
Pentachlorobenzene	<11.8	U	20.0	11.8	ug/L		11/14/23 06:50	11/18/23 11:57	10
Pentachloronitrobenzene	<12.7	U	20.0	12.7	ug/L		11/14/23 06:50	11/18/23 11:57	10
Pentachlorophenol	<4.41	U	20.0	4.41	ug/L		11/14/23 06:50	11/18/23 11:57	10
Phenacetin	<13.2	U	80.0	13.2	ug/L		11/14/23 06:50	11/18/23 11:57	10
Phenanthrene	<1.76	U	20.0	1.76	ug/L		11/14/23 06:50	11/18/23 11:57	10
Phenol	<2.02	U	40.0	2.02	ug/L		11/14/23 06:50	11/18/23 11:57	10
Phorate	<14.0	U	80.0	14.0	ug/L		11/14/23 06:50	11/18/23 11:57	10
p-Phenylene diamine	<100	U *	100	100	ug/L		11/14/23 06:50	11/18/23 11:57	10
Pronamide	<13.9	U	40.0	13.9	ug/L		11/14/23 06:50	11/18/23 11:57	10
Pyrene	<1.59	U	20.0	1.59	ug/L		11/14/23 06:50	11/18/23 11:57	10
Pyridine	<7.25	U	20.0	7.25	ug/L		11/14/23 06:50	11/18/23 11:57	10
Safrole, Total	<1.83	U	40.0	1.83	ug/L		11/14/23 06:50	11/18/23 11:57	10
Sulfotepp	<14.3	U	40.0	14.3	ug/L		11/14/23 06:50	11/18/23 11:57	10
Thionazin	<14.4	U	80.0	14.4	ug/L		11/14/23 06:50	11/18/23 11:57	10
Aramite Peak 2	<27.4	U	40.0	27.4	ug/L		11/14/23 06:50	11/18/23 11:57	10
Isosafrole Peak 1	<24.6	U	60.0	24.6	ug/L		11/14/23 06:50	11/18/23 11:57	10
Diallate Peak 2	<6.02	U	80.0	6.02	ug/L		11/14/23 06:50	11/18/23 11:57	10
Isosafrole Peak 2	<21.2	U	60.0	21.2	ug/L		11/14/23 06:50	11/18/23 11:57	10
Diallate Peak 1	<6.75	U	80.0	6.75	ug/L		11/14/23 06:50	11/18/23 11:57	10
Aramite Peak 1	<6.70	U	40.0	6.70	ug/L		11/14/23 06:50	11/18/23 11:57	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		31 - 132	11/14/23 06:50	11/18/23 11:57	10
2-Fluorobiphenyl	66		40 - 130	11/14/23 06:50	11/18/23 11:57	10
2-Fluorophenol (Surr)	40		21 - 114	11/14/23 06:50	11/18/23 11:57	10
Nitrobenzene-d5 (Surr)	55		37 - 130	11/14/23 06:50	11/18/23 11:57	10
Phenol-d5 (Surr)	19		16 - 117	11/14/23 06:50	11/18/23 11:57	10
p-Terphenyl-d14	100		20 - 141	11/14/23 06:50	11/18/23 11:57	10

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	574		65.6	17.2	ug/L		11/14/23 10:57	11/18/23 02:52	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	152	S1+	37 - 133	11/14/23 10:57	11/18/23 02:52	100

Client Sample ID: MW-17

Lab Sample ID: 860-61242-4

Date Collected: 11/09/23 11:37

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.48		1.00	0.644	ug/L			11/11/23 03:43	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/11/23 03:43	1
1,1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/11/23 03:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/11/23 03:43	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/11/23 03:43	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/11/23 03:43	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-17

Lab Sample ID: 860-61242-4

Date Collected: 11/09/23 11:37

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.72		1.00	0.738	ug/L			11/11/23 03:43	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/11/23 03:43	1
1,2,4-Trimethylbenzene	2.56		1.00	0.417	ug/L			11/11/23 03:43	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/11/23 03:43	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/11/23 03:43	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/11/23 03:43	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/11/23 03:43	1
1,3,5-Trimethylbenzene	0.788	J	1.00	0.411	ug/L			11/11/23 03:43	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/11/23 03:43	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/11/23 03:43	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/11/23 03:43	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/11/23 03:43	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/11/23 03:43	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/11/23 03:43	1
4-Methyl-2-pentanone	38.9	J	50.0	7.49	ug/L			11/11/23 03:43	1
Acetone	302		100	3.07	ug/L			11/11/23 03:43	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/11/23 03:43	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/11/23 03:43	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/11/23 03:43	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/11/23 03:43	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/11/23 03:43	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/11/23 03:43	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/11/23 03:43	1
Carbon disulfide	2.81	J	5.00	1.65	ug/L			11/11/23 03:43	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/11/23 03:43	1
Chloroethane	3.43	J	10.0	1.98	ug/L			11/11/23 03:43	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/11/23 03:43	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/11/23 03:43	1
cis-1,2-Dichloroethene	17.3		1.00	0.457	ug/L			11/11/23 03:43	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/11/23 03:43	1
Cumene (isopropylbenzene)	22.7		1.00	0.592	ug/L			11/11/23 03:43	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/11/23 03:43	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/11/23 03:43	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/11/23 03:43	1
Ethylbenzene	29.0		1.00	0.385	ug/L			11/11/23 03:43	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/11/23 03:43	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/11/23 03:43	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/11/23 03:43	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/11/23 03:43	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/11/23 03:43	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/11/23 03:43	1
Methylene Chloride	13.8		5.00	1.73	ug/L			11/11/23 03:43	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/11/23 03:43	1
Propylbenzene	0.621	J	1.00	0.429	ug/L			11/11/23 03:43	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/11/23 03:43	1
Tetrachloroethene	22.5		1.00	0.655	ug/L			11/11/23 03:43	1
Tetrahydrofuran	33.8		10.0	1.83	ug/L			11/11/23 03:43	1
Toluene	15.5		1.00	0.475	ug/L			11/11/23 03:43	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/11/23 03:43	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-17

Lab Sample ID: 860-61242-4

Date Collected: 11/09/23 11:37

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/11/23 03:43	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/11/23 03:43	1
Trichloroethene	2.58	J	5.00	0.791	ug/L			11/11/23 03:43	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/11/23 03:43	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/11/23 03:43	1
Vinyl chloride	0.701	J	2.00	0.428	ug/L			11/11/23 03:43	1
Xylenes, Total	61.0		10.0	1.24	ug/L			11/11/23 03:43	1
m,p-Xylenes	0.0364		0.0100	0.00124	mg/L			11/11/23 03:43	1
o-Xylene	0.0246		0.00100	0.000502	mg/L			11/11/23 03:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		63 - 144		11/11/23 03:43	1
4-Bromofluorobenzene (Surr)	103		74 - 124		11/11/23 03:43	1
Dibromofluoromethane (Surr)	105		75 - 131		11/11/23 03:43	1
Toluene-d8 (Surr)	99		80 - 120		11/11/23 03:43	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	323		10.0	4.60	ug/L			11/11/23 04:03	10
Chlorobenzene	787		10.0	4.55	ug/L			11/11/23 04:03	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		63 - 144		11/11/23 04:03	10
4-Bromofluorobenzene (Surr)	97		74 - 124		11/11/23 04:03	10
Dibromofluoromethane (Surr)	99		75 - 131		11/11/23 04:03	10
Toluene-d8 (Surr)	98		80 - 120		11/11/23 04:03	10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	2840		100	46.4	ug/L			11/15/23 06:25	100
Cyclohexane	1410		500	129	ug/L			11/15/23 06:25	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		63 - 144		11/15/23 06:25	100
4-Bromofluorobenzene (Surr)	111		74 - 124		11/15/23 06:25	100
Dibromofluoromethane (Surr)	105		75 - 131		11/15/23 06:25	100
Toluene-d8 (Surr)	106		80 - 120		11/15/23 06:25	100

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	49100		2500	448	ug/L			11/15/23 06:44	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		63 - 144		11/15/23 06:44	500
4-Bromofluorobenzene (Surr)	103		74 - 124		11/15/23 06:44	500
Dibromofluoromethane (Surr)	115		75 - 131		11/15/23 06:44	500
Toluene-d8 (Surr)	107		80 - 120		11/15/23 06:44	500

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<4.28	U	20.0	4.28	ug/L		11/14/23 12:29	11/16/23 22:45	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-17

Lab Sample ID: 860-61242-4

Date Collected: 11/09/23 11:37

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<6.72	U	20.0	6.72	ug/L		11/14/23 12:29	11/16/23 22:45	10
1,2,4-Trichlorobenzene	<6.80	U	20.0	6.80	ug/L		11/14/23 12:29	11/16/23 22:45	10
1,2-Dichlorobenzene	6.34	J	20.0	2.96	ug/L		11/14/23 12:29	11/16/23 22:45	10
1,3,5-Trinitrobenzene	<14.3	U	20.0	14.3	ug/L		11/14/23 12:29	11/16/23 22:45	10
1,3-Dichlorobenzene	<3.50	U	20.0	3.50	ug/L		11/14/23 12:29	11/16/23 22:45	10
1,3-Dinitrobenzene	<1.12	U	20.0	1.12	ug/L		11/14/23 12:29	11/16/23 22:45	10
1,4-Dichlorobenzene	10.1	J	20.0	4.28	ug/L		11/14/23 12:29	11/16/23 22:45	10
1,4-Naphthoquinone	<18.5	U	80.0	18.5	ug/L		11/14/23 12:29	11/16/23 22:45	10
1-Naphthylamine	<2.32	U	20.0	2.32	ug/L		11/14/23 12:29	11/16/23 22:45	10
2,2'-oxybis[1-chloropropane]	<1.39	U	20.0	1.39	ug/L		11/14/23 12:29	11/16/23 22:45	10
2,3,4,6-Tetrachlorophenol	<1.74	U	20.0	1.74	ug/L		11/14/23 12:29	11/16/23 22:45	10
2,4,5-Trichlorophenol	<1.08	U	20.0	1.08	ug/L		11/14/23 12:29	11/16/23 22:45	10
2,4,6-Trichlorophenol	<1.35	U	20.0	1.35	ug/L		11/14/23 12:29	11/16/23 22:45	10
2,4-Dichlorophenol	<1.15	U	20.0	1.15	ug/L		11/14/23 12:29	11/16/23 22:45	10
2,4-Dimethylphenol	<1.48	U	20.0	1.48	ug/L		11/14/23 12:29	11/16/23 22:45	10
2,4-Dinitrophenol	<14.6	U	80.0	14.6	ug/L		11/14/23 12:29	11/16/23 22:45	10
2,4-Dinitrotoluene	<1.27	U	20.0	1.27	ug/L		11/14/23 12:29	11/16/23 22:45	10
2,6-Dichlorophenol	<1.26	U	20.0	1.26	ug/L		11/14/23 12:29	11/16/23 22:45	10
2,6-Dinitrotoluene	<1.99	U	20.0	1.99	ug/L		11/14/23 12:29	11/16/23 22:45	10
2-Acetylaminofluorene	<15.2	U	80.0	15.2	ug/L		11/14/23 12:29	11/16/23 22:45	10
2-Chloronaphthalene	<10.9	U	80.0	10.9	ug/L		11/14/23 12:29	11/16/23 22:45	10
2-Chlorophenol	<0.135	U	20.0	0.135	ug/L		11/14/23 12:29	11/16/23 22:45	10
2-Methylnaphthalene	<4.80	U	20.0	4.80	ug/L		11/14/23 12:29	11/16/23 22:45	10
2-Methylphenol	<1.59	U	20.0	1.59	ug/L		11/14/23 12:29	11/16/23 22:45	10
2-Naphthylamine	<5.95	U	80.0	5.95	ug/L		11/14/23 12:29	11/16/23 22:45	10
2-Nitroaniline	<1.63	U	40.0	1.63	ug/L		11/14/23 12:29	11/16/23 22:45	10
2-Nitrophenol	<1.35	U	20.0	1.35	ug/L		11/14/23 12:29	11/16/23 22:45	10
2-Picoline	<2.15	U	20.0	2.15	ug/L		11/14/23 12:29	11/16/23 22:45	10
2-Toluidine	<9.34	U	80.0	9.34	ug/L		11/14/23 12:29	11/16/23 22:45	10
3 & 4 Methylphenol	<1.63	U	20.0	1.63	ug/L		11/14/23 12:29	11/16/23 22:45	10
3,3'-Dichlorobenzidine	<2.20	U	40.0	2.20	ug/L		11/14/23 12:29	11/16/23 22:45	10
3,3'-Dimethylbenzidine	<4.44	U *	80.0	4.44	ug/L		11/14/23 12:29	11/16/23 22:45	10
3-Methylcholanthrene	<1.59	U	80.0	1.59	ug/L		11/14/23 12:29	11/16/23 22:45	10
3-Nitroaniline	<3.44	U	20.0	3.44	ug/L		11/14/23 12:29	11/16/23 22:45	10
4,6-Dinitro-2-methylphenol	<7.36	U	80.0	7.36	ug/L		11/14/23 12:29	11/16/23 22:45	10
4-Aminobiphenyl	<2.97	U	80.0	2.97	ug/L		11/14/23 12:29	11/16/23 22:45	10
4-Bromophenyl phenyl ether	<1.67	U	20.0	1.67	ug/L		11/14/23 12:29	11/16/23 22:45	10
4-Chloro-3-methylphenol	<1.57	U	20.0	1.57	ug/L		11/14/23 12:29	11/16/23 22:45	10
4-Chloroaniline	<1.49	U	40.0	1.49	ug/L		11/14/23 12:29	11/16/23 22:45	10
4-Chlorophenyl phenyl ether	<2.32	U	20.0	2.32	ug/L		11/14/23 12:29	11/16/23 22:45	10
4-Nitroaniline	<2.47	U	40.0	2.47	ug/L		11/14/23 12:29	11/16/23 22:45	10
4-Nitroquinoline-1-oxide	<21.5	U	40.0	21.5	ug/L		11/14/23 12:29	11/16/23 22:45	10
7,12-Dimethylbenz(a)anthracene	<0.610	U	80.0	0.610	ug/L		11/14/23 12:29	11/16/23 22:45	10
Acenaphthene	<2.08	U	20.0	2.08	ug/L		11/14/23 12:29	11/16/23 22:45	10
Acenaphthylene	<2.15	U	20.0	2.15	ug/L		11/14/23 12:29	11/16/23 22:45	10
Acetophenone	<2.25	U	40.0	2.25	ug/L		11/14/23 12:29	11/16/23 22:45	10
alpha,alpha-Dimethyl phenethylamine	<40.0	U	40.0	40.0	ug/L		11/14/23 12:29	11/16/23 22:45	10
Aniline	<3.14	U	40.0	3.14	ug/L		11/14/23 12:29	11/16/23 22:45	10
Anthracene	<1.54	U	20.0	1.54	ug/L		11/14/23 12:29	11/16/23 22:45	10

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-17

Lab Sample ID: 860-61242-4

Date Collected: 11/09/23 11:37

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aramite, Total	<6.70	U	40.0	6.70	ug/L		11/14/23 12:29	11/16/23 22:45	10
Benzo[a]anthracene	<1.50	U	20.0	1.50	ug/L		11/14/23 12:29	11/16/23 22:45	10
Benzo[a]pyrene	<1.48	U	20.0	1.48	ug/L		11/14/23 12:29	11/16/23 22:45	10
Benzo[b]fluoranthene	<2.10	U	20.0	2.10	ug/L		11/14/23 12:29	11/16/23 22:45	10
Benzo[g,h,i]perylene	<1.43	U	20.0	1.43	ug/L		11/14/23 12:29	11/16/23 22:45	10
Benzo[k]fluoranthene	<1.66	U	20.0	1.66	ug/L		11/14/23 12:29	11/16/23 22:45	10
Benzyl alcohol	<45.0	U	80.0	45.0	ug/L		11/14/23 12:29	11/16/23 22:45	10
Bis(2-chloroethoxy)methane	<1.70	U	20.0	1.70	ug/L		11/14/23 12:29	11/16/23 22:45	10
Bis(2-chloroethyl)ether	<2.78	U	20.0	2.78	ug/L		11/14/23 12:29	11/16/23 22:45	10
Bis(2-ethylhexyl) phthalate	<2.25	U	20.0	2.25	ug/L		11/14/23 12:29	11/16/23 22:45	10
Butyl benzyl phthalate	<1.50	U	20.0	1.50	ug/L		11/14/23 12:29	11/16/23 22:45	10
Chrysene	<1.59	U	20.0	1.59	ug/L		11/14/23 12:29	11/16/23 22:45	10
Diallate	<6.02	U	80.0	6.02	ug/L		11/14/23 12:29	11/16/23 22:45	10
Dibenz(a,h)anthracene	<1.48	U	20.0	1.48	ug/L		11/14/23 12:29	11/16/23 22:45	10
Dibenzofuran	<3.36	U	20.0	3.36	ug/L		11/14/23 12:29	11/16/23 22:45	10
Diethyl phthalate	<1.18	U	20.0	1.18	ug/L		11/14/23 12:29	11/16/23 22:45	10
Dimethoate	<17.0	U	80.0	17.0	ug/L		11/14/23 12:29	11/16/23 22:45	10
Dimethyl phthalate	<1.43	U	20.0	1.43	ug/L		11/14/23 12:29	11/16/23 22:45	10
Di-n-butyl phthalate	<8.00	U	20.0	8.00	ug/L		11/14/23 12:29	11/16/23 22:45	10
Di-n-octyl phthalate	<1.69	U	20.0	1.69	ug/L		11/14/23 12:29	11/16/23 22:45	10
Dinoseb	<20.0	U	40.0	20.0	ug/L		11/14/23 12:29	11/16/23 22:45	10
Diphenyl ether	<3.64	U	80.0	3.64	ug/L		11/14/23 12:29	11/16/23 22:45	10
Disulfoton	<13.9	U	80.0	13.9	ug/L		11/14/23 12:29	11/16/23 22:45	10
Ethyl methanesulfonate	<13.8	U	40.0	13.8	ug/L		11/14/23 12:29	11/16/23 22:45	10
Ethyl Parathion	<14.1	U	40.0	14.1	ug/L		11/14/23 12:29	11/16/23 22:45	10
Famphur	<80.0	U	80.0	80.0	ug/L		11/14/23 12:29	11/16/23 22:45	10
Fluoranthene	<1.48	U	20.0	1.48	ug/L		11/14/23 12:29	11/16/23 22:45	10
Fluorene	<2.05	U	20.0	2.05	ug/L		11/14/23 12:29	11/16/23 22:45	10
Hexachlorobenzene	<1.26	U	20.0	1.26	ug/L		11/14/23 12:29	11/16/23 22:45	10
Hexachlorobutadiene	<2.52	U	20.0	2.52	ug/L		11/14/23 12:29	11/16/23 22:45	10
Hexachlorocyclopentadiene	<4.31	U	20.0	4.31	ug/L		11/14/23 12:29	11/16/23 22:45	10
Hexachloroethane	6.80	J	20.0	1.40	ug/L		11/14/23 12:29	11/16/23 22:45	10
Hexachloropropene	<2.13	U	40.0	2.13	ug/L		11/14/23 12:29	11/16/23 22:45	10
Indeno[1,2,3-cd]pyrene	<8.52	U	20.0	8.52	ug/L		11/14/23 12:29	11/16/23 22:45	10
Isophorone	<1.68	U	20.0	1.68	ug/L		11/14/23 12:29	11/16/23 22:45	10
Isosafrole	<24.6	U	60.0	24.6	ug/L		11/14/23 12:29	11/16/23 22:45	10
Methapyrilene	<1.81	U	20.0	1.81	ug/L		11/14/23 12:29	11/16/23 22:45	10
Methyl methanesulfonate	<0.610	U	20.0	0.610	ug/L		11/14/23 12:29	11/16/23 22:45	10
Methyl parathion	<16.4	U	40.0	16.4	ug/L		11/14/23 12:29	11/16/23 22:45	10
Naphthalene	<4.23	U	20.0	4.23	ug/L		11/14/23 12:29	11/16/23 22:45	10
Nitrobenzene	<9.34	U	20.0	9.34	ug/L		11/14/23 12:29	11/16/23 22:45	10
N-Nitro-o-toluidine	<13.1	U	80.0	13.1	ug/L		11/14/23 12:29	11/16/23 22:45	10
N-Nitrosodiethylamine	<15.4	U	40.0	15.4	ug/L		11/14/23 12:29	11/16/23 22:45	10
N-Nitrosodimethylamine	<1.26	U	20.0	1.26	ug/L		11/14/23 12:29	11/16/23 22:45	10
N-Nitrosodi-n-butylamine	<15.4	U	20.0	15.4	ug/L		11/14/23 12:29	11/16/23 22:45	10
N-Nitrosodi-n-propylamine	<1.61	U	20.0	1.61	ug/L		11/14/23 12:29	11/16/23 22:45	10
N-Nitrosodiphenylamine	<1.55	U	20.0	1.55	ug/L		11/14/23 12:29	11/16/23 22:45	10
N-Nitrosomethylethylamine	<1.99	U	20.0	1.99	ug/L		11/14/23 12:29	11/16/23 22:45	10
N-Nitrosomorpholine	<14.4	U	40.0	14.4	ug/L		11/14/23 12:29	11/16/23 22:45	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-17

Lab Sample ID: 860-61242-4

Date Collected: 11/09/23 11:37

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopiperidine	<14.4	U	40.0	14.4	ug/L		11/14/23 12:29	11/16/23 22:45	10
N-Nitrosopyrrolidine	<13.8	U	40.0	13.8	ug/L		11/14/23 12:29	11/16/23 22:45	10
p-Dimethylamino azobenzene	<0.579	U	80.0	0.579	ug/L		11/14/23 12:29	11/16/23 22:45	10
Pentachlorobenzene	<11.8	U	20.0	11.8	ug/L		11/14/23 12:29	11/16/23 22:45	10
Pentachloronitrobenzene	<12.7	U	20.0	12.7	ug/L		11/14/23 12:29	11/16/23 22:45	10
Pentachlorophenol	<4.41	U	20.0	4.41	ug/L		11/14/23 12:29	11/16/23 22:45	10
Phenacetin	<13.2	U	80.0	13.2	ug/L		11/14/23 12:29	11/16/23 22:45	10
Phenanthrene	<1.76	U	20.0	1.76	ug/L		11/14/23 12:29	11/16/23 22:45	10
Phenol	<2.02	U	40.0	2.02	ug/L		11/14/23 12:29	11/16/23 22:45	10
Phorate	<14.0	U	80.0	14.0	ug/L		11/14/23 12:29	11/16/23 22:45	10
p-Phenylene diamine	<100	U *	100	100	ug/L		11/14/23 12:29	11/16/23 22:45	10
Pronamide	<13.9	U	40.0	13.9	ug/L		11/14/23 12:29	11/16/23 22:45	10
Pyrene	<1.59	U	20.0	1.59	ug/L		11/14/23 12:29	11/16/23 22:45	10
Pyridine	<7.25	U	20.0	7.25	ug/L		11/14/23 12:29	11/16/23 22:45	10
Safrole, Total	<1.83	U	40.0	1.83	ug/L		11/14/23 12:29	11/16/23 22:45	10
Sulfotep	<14.3	U	40.0	14.3	ug/L		11/14/23 12:29	11/16/23 22:45	10
Thionazin	<14.4	U	80.0	14.4	ug/L		11/14/23 12:29	11/16/23 22:45	10
Aramite Peak 2	<27.4	U	40.0	27.4	ug/L		11/14/23 12:29	11/16/23 22:45	10
Isosafrole Peak 1	<24.6	U	60.0	24.6	ug/L		11/14/23 12:29	11/16/23 22:45	10
Diallate Peak 2	<6.02	U	80.0	6.02	ug/L		11/14/23 12:29	11/16/23 22:45	10
Isosafrole Peak 2	<21.2	U	60.0	21.2	ug/L		11/14/23 12:29	11/16/23 22:45	10
Diallate Peak 1	<6.75	U	80.0	6.75	ug/L		11/14/23 12:29	11/16/23 22:45	10
Aramite Peak 1	<6.70	U	40.0	6.70	ug/L		11/14/23 12:29	11/16/23 22:45	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		31 - 132	11/14/23 12:29	11/16/23 22:45	10
2-Fluorobiphenyl	70		40 - 130	11/14/23 12:29	11/16/23 22:45	10
2-Fluorophenol (Surr)	45		21 - 114	11/14/23 12:29	11/16/23 22:45	10
Nitrobenzene-d5 (Surr)	71		37 - 130	11/14/23 12:29	11/16/23 22:45	10
Phenol-d5 (Surr)	27		16 - 117	11/14/23 12:29	11/16/23 22:45	10
p-Terphenyl-d14	94		20 - 141	11/14/23 12:29	11/16/23 22:45	10

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o,o',o"-Triethylphosphorothioate	903		800	5.79	ug/L		11/14/23 12:29	11/17/23 14:40	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/14/23 12:29	11/17/23 14:40	100
2-Fluorobiphenyl	72		40 - 130	11/14/23 12:29	11/17/23 14:40	100
2-Fluorophenol (Surr)	54		21 - 114	11/14/23 12:29	11/17/23 14:40	100
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/14/23 12:29	11/17/23 14:40	100
Phenol-d5 (Surr)	0	S1-	16 - 117	11/14/23 12:29	11/17/23 14:40	100
p-Terphenyl-d14	113		20 - 141	11/14/23 12:29	11/17/23 14:40	100

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	93.6		33.1	8.69	ug/L		11/14/23 10:57	11/18/23 03:22	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	166	S1+	37 - 133	11/14/23 10:57	11/18/23 03:22	50

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: DUP-01

Lab Sample ID: 860-61242-5

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/11/23 02:00	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/11/23 02:00	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/11/23 02:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/11/23 02:00	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/11/23 02:00	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/11/23 02:00	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/11/23 02:00	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/11/23 02:00	1
1,2,4-Trimethylbenzene	0.673	J	1.00	0.417	ug/L			11/11/23 02:00	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/11/23 02:00	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/11/23 02:00	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/11/23 02:00	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/11/23 02:00	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/11/23 02:00	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/11/23 02:00	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/11/23 02:00	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/11/23 02:00	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/11/23 02:00	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/11/23 02:00	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/11/23 02:00	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/11/23 02:00	1
Acetone	6.49	J	100	3.07	ug/L			11/11/23 02:00	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/11/23 02:00	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/11/23 02:00	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/11/23 02:00	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/11/23 02:00	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/11/23 02:00	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/11/23 02:00	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/11/23 02:00	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/11/23 02:00	1
Chlorobenzene	88.8		1.00	0.455	ug/L			11/11/23 02:00	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/11/23 02:00	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/11/23 02:00	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/11/23 02:00	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/11/23 02:00	1
cis-1,2-Dichloroethene	0.906	J	1.00	0.457	ug/L			11/11/23 02:00	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/11/23 02:00	1
Cumene (isopropylbenzene)	0.872	J	1.00	0.592	ug/L			11/11/23 02:00	1
Cyclohexane	49.1		5.00	1.29	ug/L			11/11/23 02:00	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/11/23 02:00	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/11/23 02:00	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/11/23 02:00	1
Ethylbenzene	6.66		1.00	0.385	ug/L			11/11/23 02:00	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/11/23 02:00	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/11/23 02:00	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/11/23 02:00	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/11/23 02:00	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/11/23 02:00	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/11/23 02:00	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: DUP-01

Lab Sample ID: 860-61242-5

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	147		5.00	1.73	ug/L			11/11/23 02:00	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/11/23 02:00	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/11/23 02:00	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/11/23 02:00	1
Tetrachloroethene	2.05		1.00	0.655	ug/L			11/11/23 02:00	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/11/23 02:00	1
Toluene	1.97		1.00	0.475	ug/L			11/11/23 02:00	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/11/23 02:00	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/11/23 02:00	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/11/23 02:00	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/11/23 02:00	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/11/23 02:00	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/11/23 02:00	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/11/23 02:00	1
Xylenes, Total	9.71	J	10.0	1.24	ug/L			11/11/23 02:00	1
m,p-Xylenes	0.00516	J	0.0100	0.00124	mg/L			11/11/23 02:00	1
o-Xylene	0.00455		0.00100	0.000502	mg/L			11/11/23 02:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		11/11/23 02:00	1
4-Bromofluorobenzene (Surr)	98		74 - 124		11/11/23 02:00	1
Dibromofluoromethane (Surr)	101		75 - 131		11/11/23 02:00	1
Toluene-d8 (Surr)	98		80 - 120		11/11/23 02:00	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	416		20.0	9.19	ug/L			11/14/23 00:35	20
Carbon tetrachloride	2030		100	17.9	ug/L			11/14/23 00:35	20
Chloroform	380		20.0	9.28	ug/L			11/14/23 00:35	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		63 - 144		11/14/23 00:35	20
4-Bromofluorobenzene (Surr)	112		74 - 124		11/14/23 00:35	20
Dibromofluoromethane (Surr)	114		75 - 131		11/14/23 00:35	20
Toluene-d8 (Surr)	105		80 - 120		11/14/23 00:35	20

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<4.28	U	20.0	4.28	ug/L		11/14/23 12:29	11/16/23 23:05	10
1,2,4,5-Tetrachlorobenzene	<6.72	U	20.0	6.72	ug/L		11/14/23 12:29	11/16/23 23:05	10
1,2,4-Trichlorobenzene	<6.80	U	20.0	6.80	ug/L		11/14/23 12:29	11/16/23 23:05	10
1,2-Dichlorobenzene	<2.96	U	20.0	2.96	ug/L		11/14/23 12:29	11/16/23 23:05	10
1,3,5-Trinitrobenzene	<14.3	U	20.0	14.3	ug/L		11/14/23 12:29	11/16/23 23:05	10
1,3-Dichlorobenzene	<3.50	U	20.0	3.50	ug/L		11/14/23 12:29	11/16/23 23:05	10
1,3-Dinitrobenzene	<1.12	U	20.0	1.12	ug/L		11/14/23 12:29	11/16/23 23:05	10
1,4-Dichlorobenzene	<4.28	U	20.0	4.28	ug/L		11/14/23 12:29	11/16/23 23:05	10
1,4-Naphthoquinone	<18.5	U	80.0	18.5	ug/L		11/14/23 12:29	11/16/23 23:05	10
1-Naphthylamine	<2.32	U	20.0	2.32	ug/L		11/14/23 12:29	11/16/23 23:05	10
2,2'-oxybis[1-chloropropane]	<1.39	U	20.0	1.39	ug/L		11/14/23 12:29	11/16/23 23:05	10
2,3,4,6-Tetrachlorophenol	<1.74	U	20.0	1.74	ug/L		11/14/23 12:29	11/16/23 23:05	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: DUP-01

Lab Sample ID: 860-61242-5

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<1.08	U	20.0	1.08	ug/L		11/14/23 12:29	11/16/23 23:05	10
2,4,6-Trichlorophenol	<1.35	U	20.0	1.35	ug/L		11/14/23 12:29	11/16/23 23:05	10
2,4-Dichlorophenol	<1.15	U	20.0	1.15	ug/L		11/14/23 12:29	11/16/23 23:05	10
2,4-Dimethylphenol	<1.48	U	20.0	1.48	ug/L		11/14/23 12:29	11/16/23 23:05	10
2,4-Dinitrophenol	<14.6	U	80.0	14.6	ug/L		11/14/23 12:29	11/16/23 23:05	10
2,4-Dinitrotoluene	<1.27	U	20.0	1.27	ug/L		11/14/23 12:29	11/16/23 23:05	10
2,6-Dichlorophenol	<1.26	U	20.0	1.26	ug/L		11/14/23 12:29	11/16/23 23:05	10
2,6-Dinitrotoluene	<1.99	U	20.0	1.99	ug/L		11/14/23 12:29	11/16/23 23:05	10
2-Acetylaminofluorene	<15.2	U	80.0	15.2	ug/L		11/14/23 12:29	11/16/23 23:05	10
2-Chloronaphthalene	<10.9	U	80.0	10.9	ug/L		11/14/23 12:29	11/16/23 23:05	10
2-Chlorophenol	<0.135	U	20.0	0.135	ug/L		11/14/23 12:29	11/16/23 23:05	10
2-Methylnaphthalene	<4.80	U	20.0	4.80	ug/L		11/14/23 12:29	11/16/23 23:05	10
2-Methylphenol	<1.59	U	20.0	1.59	ug/L		11/14/23 12:29	11/16/23 23:05	10
2-Naphthylamine	<5.95	U	80.0	5.95	ug/L		11/14/23 12:29	11/16/23 23:05	10
2-Nitroaniline	<1.63	U	40.0	1.63	ug/L		11/14/23 12:29	11/16/23 23:05	10
2-Nitrophenol	<1.35	U	20.0	1.35	ug/L		11/14/23 12:29	11/16/23 23:05	10
2-Picoline	<2.15	U	20.0	2.15	ug/L		11/14/23 12:29	11/16/23 23:05	10
2-Toluidine	<9.34	U	80.0	9.34	ug/L		11/14/23 12:29	11/16/23 23:05	10
3 & 4 Methylphenol	<1.63	U	20.0	1.63	ug/L		11/14/23 12:29	11/16/23 23:05	10
3,3'-Dichlorobenzidine	<2.20	U	40.0	2.20	ug/L		11/14/23 12:29	11/16/23 23:05	10
3,3'-Dimethylbenzidine	<4.44	U *	80.0	4.44	ug/L		11/14/23 12:29	11/16/23 23:05	10
3-Methylcholanthrene	<1.59	U	80.0	1.59	ug/L		11/14/23 12:29	11/16/23 23:05	10
3-Nitroaniline	<3.44	U	20.0	3.44	ug/L		11/14/23 12:29	11/16/23 23:05	10
4,6-Dinitro-2-methylphenol	<7.36	U	80.0	7.36	ug/L		11/14/23 12:29	11/16/23 23:05	10
4-Aminobiphenyl	<2.97	U	80.0	2.97	ug/L		11/14/23 12:29	11/16/23 23:05	10
4-Bromophenyl phenyl ether	<1.67	U	20.0	1.67	ug/L		11/14/23 12:29	11/16/23 23:05	10
4-Chloro-3-methylphenol	<1.57	U	20.0	1.57	ug/L		11/14/23 12:29	11/16/23 23:05	10
4-Chloroaniline	<1.49	U	40.0	1.49	ug/L		11/14/23 12:29	11/16/23 23:05	10
4-Chlorophenyl phenyl ether	<2.32	U	20.0	2.32	ug/L		11/14/23 12:29	11/16/23 23:05	10
4-Nitroaniline	<2.47	U	40.0	2.47	ug/L		11/14/23 12:29	11/16/23 23:05	10
4-Nitroquinoline-1-oxide	<21.5	U	40.0	21.5	ug/L		11/14/23 12:29	11/16/23 23:05	10
7,12-Dimethylbenz(a)anthracene	<0.610	U	80.0	0.610	ug/L		11/14/23 12:29	11/16/23 23:05	10
Acenaphthene	<2.08	U	20.0	2.08	ug/L		11/14/23 12:29	11/16/23 23:05	10
Acenaphthylene	<2.15	U	20.0	2.15	ug/L		11/14/23 12:29	11/16/23 23:05	10
Acetophenone	<2.25	U	40.0	2.25	ug/L		11/14/23 12:29	11/16/23 23:05	10
alpha,alpha-Dimethyl phenethylamine	<40.0	U	40.0	40.0	ug/L		11/14/23 12:29	11/16/23 23:05	10
Aniline	<3.14	U	40.0	3.14	ug/L		11/14/23 12:29	11/16/23 23:05	10
Anthracene	<1.54	U	20.0	1.54	ug/L		11/14/23 12:29	11/16/23 23:05	10
Aramite, Total	<6.70	U	40.0	6.70	ug/L		11/14/23 12:29	11/16/23 23:05	10
Benzo[a]anthracene	<1.50	U	20.0	1.50	ug/L		11/14/23 12:29	11/16/23 23:05	10
Benzo[a]pyrene	<1.48	U	20.0	1.48	ug/L		11/14/23 12:29	11/16/23 23:05	10
Benzo[b]fluoranthene	<2.10	U	20.0	2.10	ug/L		11/14/23 12:29	11/16/23 23:05	10
Benzo[g,h,i]perylene	<1.43	U	20.0	1.43	ug/L		11/14/23 12:29	11/16/23 23:05	10
Benzo[k]fluoranthene	<1.66	U	20.0	1.66	ug/L		11/14/23 12:29	11/16/23 23:05	10
Benzyl alcohol	<45.0	U	80.0	45.0	ug/L		11/14/23 12:29	11/16/23 23:05	10
Bis(2-chloroethoxy)methane	<1.70	U	20.0	1.70	ug/L		11/14/23 12:29	11/16/23 23:05	10
Bis(2-chloroethyl)ether	<2.78	U	20.0	2.78	ug/L		11/14/23 12:29	11/16/23 23:05	10
Bis(2-ethylhexyl) phthalate	<2.25	U	20.0	2.25	ug/L		11/14/23 12:29	11/16/23 23:05	10
Butyl benzyl phthalate	<1.50	U	20.0	1.50	ug/L		11/14/23 12:29	11/16/23 23:05	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: DUP-01

Lab Sample ID: 860-61242-5

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<1.59	U	20.0	1.59	ug/L		11/14/23 12:29	11/16/23 23:05	10
Diallate	<6.02	U	80.0	6.02	ug/L		11/14/23 12:29	11/16/23 23:05	10
Dibenz(a,h)anthracene	<1.48	U	20.0	1.48	ug/L		11/14/23 12:29	11/16/23 23:05	10
Dibenzofuran	<3.36	U	20.0	3.36	ug/L		11/14/23 12:29	11/16/23 23:05	10
Diethyl phthalate	<1.18	U	20.0	1.18	ug/L		11/14/23 12:29	11/16/23 23:05	10
Dimethoate	<17.0	U	80.0	17.0	ug/L		11/14/23 12:29	11/16/23 23:05	10
Dimethyl phthalate	<1.43	U	20.0	1.43	ug/L		11/14/23 12:29	11/16/23 23:05	10
Di-n-butyl phthalate	<8.00	U	20.0	8.00	ug/L		11/14/23 12:29	11/16/23 23:05	10
Di-n-octyl phthalate	<1.69	U	20.0	1.69	ug/L		11/14/23 12:29	11/16/23 23:05	10
Dinoseb	<20.0	U	40.0	20.0	ug/L		11/14/23 12:29	11/16/23 23:05	10
Diphenyl ether	<3.64	U	80.0	3.64	ug/L		11/14/23 12:29	11/16/23 23:05	10
Disulfoton	<13.9	U	80.0	13.9	ug/L		11/14/23 12:29	11/16/23 23:05	10
Ethyl methanesulfonate	<13.8	U	40.0	13.8	ug/L		11/14/23 12:29	11/16/23 23:05	10
Ethyl Parathion	<14.1	U	40.0	14.1	ug/L		11/14/23 12:29	11/16/23 23:05	10
Famphur	<80.0	U	80.0	80.0	ug/L		11/14/23 12:29	11/16/23 23:05	10
Fluoranthene	<1.48	U	20.0	1.48	ug/L		11/14/23 12:29	11/16/23 23:05	10
Fluorene	<2.05	U	20.0	2.05	ug/L		11/14/23 12:29	11/16/23 23:05	10
Hexachlorobenzene	<1.26	U	20.0	1.26	ug/L		11/14/23 12:29	11/16/23 23:05	10
Hexachlorobutadiene	<2.52	U	20.0	2.52	ug/L		11/14/23 12:29	11/16/23 23:05	10
Hexachlorocyclopentadiene	<4.31	U	20.0	4.31	ug/L		11/14/23 12:29	11/16/23 23:05	10
Hexachloroethane	<1.40	U	20.0	1.40	ug/L		11/14/23 12:29	11/16/23 23:05	10
Hexachloropropene	<2.13	U	40.0	2.13	ug/L		11/14/23 12:29	11/16/23 23:05	10
Indeno[1,2,3-cd]pyrene	<8.52	U	20.0	8.52	ug/L		11/14/23 12:29	11/16/23 23:05	10
Isophorone	<1.68	U	20.0	1.68	ug/L		11/14/23 12:29	11/16/23 23:05	10
Isosafrole	<24.6	U	60.0	24.6	ug/L		11/14/23 12:29	11/16/23 23:05	10
Methapyrilene	<1.81	U	20.0	1.81	ug/L		11/14/23 12:29	11/16/23 23:05	10
Methyl methanesulfonate	<0.610	U	20.0	0.610	ug/L		11/14/23 12:29	11/16/23 23:05	10
Methyl parathion	<16.4	U	40.0	16.4	ug/L		11/14/23 12:29	11/16/23 23:05	10
Naphthalene	<4.23	U	20.0	4.23	ug/L		11/14/23 12:29	11/16/23 23:05	10
Nitrobenzene	<9.34	U	20.0	9.34	ug/L		11/14/23 12:29	11/16/23 23:05	10
N-Nitro-o-toluidine	<13.1	U	80.0	13.1	ug/L		11/14/23 12:29	11/16/23 23:05	10
N-Nitrosodiethylamine	<15.4	U	40.0	15.4	ug/L		11/14/23 12:29	11/16/23 23:05	10
N-Nitrosodimethylamine	<1.26	U	20.0	1.26	ug/L		11/14/23 12:29	11/16/23 23:05	10
N-Nitrosodi-n-butylamine	<15.4	U	20.0	15.4	ug/L		11/14/23 12:29	11/16/23 23:05	10
N-Nitrosodi-n-propylamine	<1.61	U	20.0	1.61	ug/L		11/14/23 12:29	11/16/23 23:05	10
N-Nitrosodiphenylamine	<1.55	U	20.0	1.55	ug/L		11/14/23 12:29	11/16/23 23:05	10
N-Nitrosomethylethylamine	<1.99	U	20.0	1.99	ug/L		11/14/23 12:29	11/16/23 23:05	10
N-Nitrosomorpholine	<14.4	U	40.0	14.4	ug/L		11/14/23 12:29	11/16/23 23:05	10
N-Nitrosopiperidine	<14.4	U	40.0	14.4	ug/L		11/14/23 12:29	11/16/23 23:05	10
N-Nitrosopyrrolidine	<13.8	U	40.0	13.8	ug/L		11/14/23 12:29	11/16/23 23:05	10
o,o',o''-Triethylphosphorothioate	671		80.0	0.579	ug/L		11/14/23 12:29	11/28/23 14:20	10
p-Dimethylamino azobenzene	<0.579	U	80.0	0.579	ug/L		11/14/23 12:29	11/16/23 23:05	10
Pentachlorobenzene	<11.8	U	20.0	11.8	ug/L		11/14/23 12:29	11/16/23 23:05	10
Pentachloronitrobenzene	<12.7	U	20.0	12.7	ug/L		11/14/23 12:29	11/16/23 23:05	10
Pentachlorophenol	10.1 J		20.0	4.41	ug/L		11/14/23 12:29	11/16/23 23:05	10
Phenacetin	<13.2	U	80.0	13.2	ug/L		11/14/23 12:29	11/16/23 23:05	10
Phenanthrene	<1.76	U	20.0	1.76	ug/L		11/14/23 12:29	11/16/23 23:05	10
Phenol	<2.02	U	40.0	2.02	ug/L		11/14/23 12:29	11/16/23 23:05	10
Phorate	<14.0	U	80.0	14.0	ug/L		11/14/23 12:29	11/16/23 23:05	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: DUP-01

Lab Sample ID: 860-61242-5

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Phenylene diamine	<100	U *	100	100	ug/L		11/14/23 12:29	11/16/23 23:05	10
Pronamide	<13.9	U	40.0	13.9	ug/L		11/14/23 12:29	11/16/23 23:05	10
Pyrene	<1.59	U	20.0	1.59	ug/L		11/14/23 12:29	11/16/23 23:05	10
Pyridine	<7.25	U	20.0	7.25	ug/L		11/14/23 12:29	11/16/23 23:05	10
Safrole, Total	<1.83	U	40.0	1.83	ug/L		11/14/23 12:29	11/16/23 23:05	10
Sulfotepp	<14.3	U	40.0	14.3	ug/L		11/14/23 12:29	11/16/23 23:05	10
Thionazin	<14.4	U	80.0	14.4	ug/L		11/14/23 12:29	11/16/23 23:05	10
Aramite Peak 2	<27.4	U	40.0	27.4	ug/L		11/14/23 12:29	11/16/23 23:05	10
Isosafrole Peak 1	<24.6	U	60.0	24.6	ug/L		11/14/23 12:29	11/16/23 23:05	10
Diallate Peak 2	<6.02	U	80.0	6.02	ug/L		11/14/23 12:29	11/16/23 23:05	10
Isosafrole Peak 2	<21.2	U	60.0	21.2	ug/L		11/14/23 12:29	11/16/23 23:05	10
Diallate Peak 1	<6.75	U	80.0	6.75	ug/L		11/14/23 12:29	11/16/23 23:05	10
Aramite Peak 1	<6.70	U	40.0	6.70	ug/L		11/14/23 12:29	11/16/23 23:05	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		31 - 132	11/14/23 12:29	11/16/23 23:05	10
2,4,6-Tribromophenol (Surr)	58		31 - 132	11/14/23 12:29	11/28/23 14:20	10
2-Fluorobiphenyl	60		40 - 130	11/14/23 12:29	11/16/23 23:05	10
2-Fluorobiphenyl	58		40 - 130	11/14/23 12:29	11/28/23 14:20	10
2-Fluorophenol (Surr)	40		21 - 114	11/14/23 12:29	11/16/23 23:05	10
2-Fluorophenol (Surr)	29		21 - 114	11/14/23 12:29	11/28/23 14:20	10
Nitrobenzene-d5 (Surr)	59		37 - 130	11/14/23 12:29	11/16/23 23:05	10
Nitrobenzene-d5 (Surr)	51		37 - 130	11/14/23 12:29	11/28/23 14:20	10
Phenol-d5 (Surr)	22		16 - 117	11/14/23 12:29	11/16/23 23:05	10
Phenol-d5 (Surr)	0	S1-	16 - 117	11/14/23 12:29	11/28/23 14:20	10
p-Terphenyl-d14	87		20 - 141	11/14/23 12:29	11/16/23 23:05	10
p-Terphenyl-d14	97		20 - 141	11/14/23 12:29	11/28/23 14:20	10

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	559		33.3	8.75	ug/L		11/14/23 10:57	11/18/23 03:51	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	131		37 - 133				11/14/23 10:57	11/18/23 03:51	50

Client Sample ID: MW-23

Lab Sample ID: 860-61242-6

Date Collected: 11/09/23 14:12

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32.2	U	50.0	32.2	ug/L			11/14/23 15:14	50
1,1,1-Trichloroethane	<29.3	U	250	29.3	ug/L			11/14/23 15:14	50
1,1,2,2-Tetrachloroethane	<23.5	U	50.0	23.5	ug/L			11/14/23 15:14	50
1,1,2-Trichloro-1,2,2-trifluoroethane	<55.5	U	500	55.5	ug/L			11/14/23 15:14	50
1,1,2-Trichloroethane	<20.6	U	50.0	20.6	ug/L			11/14/23 15:14	50
1,1-Dichloroethane	<31.8	U	50.0	31.8	ug/L			11/14/23 15:14	50
1,1-Dichloroethene	<36.9	U	50.0	36.9	ug/L			11/14/23 15:14	50
1,2,3-Trichloropropane	<23.5	U	50.0	23.5	ug/L			11/14/23 15:14	50
1,2,4-Trimethylbenzene	<20.9	U	50.0	20.9	ug/L			11/14/23 15:14	50
1,2-Dibromo-3-Chloropropane	<33.6	U	250	33.6	ug/L			11/14/23 15:14	50

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-23

Lab Sample ID: 860-61242-6

Date Collected: 11/09/23 14:12

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<50.0	U	250	50.0	ug/L			11/14/23 15:14	50
1,2-Dichloroethane	<18.6	U	50.0	18.6	ug/L			11/14/23 15:14	50
1,2-Dichloropropane	<27.8	U	250	27.8	ug/L			11/14/23 15:14	50
1,3,5-Trimethylbenzene	<20.6	U	50.0	20.6	ug/L			11/14/23 15:14	50
1,3-Butadiene	<28.4	U	50.0	28.4	ug/L			11/14/23 15:14	50
2,2,4-Trimethylpentane	<25.0	U	250	25.0	ug/L			11/14/23 15:14	50
2-Butanone (MEK)	<414	U	2500	414	ug/L			11/14/23 15:14	50
2-Hexanone (MBK)	<372	U	2500	372	ug/L			11/14/23 15:14	50
2-Propanol	<261	U	500	261	ug/L			11/14/23 15:14	50
3-Chloropropene (Allyl Chloride)	<29.9	U	250	29.9	ug/L			11/14/23 15:14	50
4-Methyl-2-pentanone	<375	U	2500	375	ug/L			11/14/23 15:14	50
Acetone	<153	U	5000	153	ug/L			11/14/23 15:14	50
Acetonitrile	<730	U	5000	730	ug/L			11/14/23 15:14	50
Acrolein	<556	U	2500	556	ug/L			11/14/23 15:14	50
Acrylonitrile	<716	U	2500	716	ug/L			11/14/23 15:14	50
alpha-Chlorotoluene	<113	U	250	113	ug/L			11/14/23 15:14	50
Benzene	6860		50.0	23.0	ug/L			11/14/23 15:14	50
Bromodichloromethane	<27.6	U	50.0	27.6	ug/L			11/14/23 15:14	50
Bromoform	<31.7	U	250	31.7	ug/L			11/14/23 15:14	50
Bromomethane	<71.0	U	250	71.0	ug/L			11/14/23 15:14	50
Carbon disulfide	<82.5	U	250	82.5	ug/L			11/14/23 15:14	50
Carbon tetrachloride	<44.8	U	250	44.8	ug/L			11/14/23 15:14	50
Chlorobenzene	204		50.0	22.8	ug/L			11/14/23 15:14	50
Chlorodibromomethane	<27.4	U	250	27.4	ug/L			11/14/23 15:14	50
Chloroethane	<99.2	U	500	99.2	ug/L			11/14/23 15:14	50
Chloroform	<23.2	U	50.0	23.2	ug/L			11/14/23 15:14	50
Chloromethane	<102	U	500	102	ug/L			11/14/23 15:14	50
Chloroprene	<29.9	U	250	29.9	ug/L			11/14/23 15:14	50
cis-1,2-Dichloroethene	<22.9	U	50.0	22.9	ug/L			11/14/23 15:14	50
cis-1,3-Dichloropropene	<53.4	U	250	53.4	ug/L			11/14/23 15:14	50
Cumene (isopropylbenzene)	<29.6	U	50.0	29.6	ug/L			11/14/23 15:14	50
Cyclohexane	<64.3	U	250	64.3	ug/L			11/14/23 15:14	50
Dibromomethane	<17.9	U	50.0	17.9	ug/L			11/14/23 15:14	50
Dichlorodifluoromethane	<39.3	U	50.0	39.3	ug/L			11/14/23 15:14	50
Ethyl methacrylate	<55.9	U	250	55.9	ug/L			11/14/23 15:14	50
Ethylbenzene	<19.3	U	50.0	19.3	ug/L			11/14/23 15:14	50
Hexane	<25.9	U	250	25.9	ug/L			11/14/23 15:14	50
Iodomethane	<326	U	1000	326	ug/L			11/14/23 15:14	50
Isobutanol	<855	U	2500	855	ug/L			11/14/23 15:14	50
Methacrylonitrile	<136	U	500	136	ug/L			11/14/23 15:14	50
Methyl methacrylate	<113	U	500	113	ug/L			11/14/23 15:14	50
Methyl tert-butyl ether	<69.6	U	250	69.6	ug/L			11/14/23 15:14	50
Methylene Chloride	<86.3	U	250	86.3	ug/L			11/14/23 15:14	50
Propionitrile	<167	U	500	167	ug/L			11/14/23 15:14	50
Propylbenzene	<21.5	U	50.0	21.5	ug/L			11/14/23 15:14	50
Styrene	<31.0	U	50.0	31.0	ug/L			11/14/23 15:14	50
Tetrachloroethene	<32.8	U	50.0	32.8	ug/L			11/14/23 15:14	50
Tetrahydrofuran	<91.7	U	500	91.7	ug/L			11/14/23 15:14	50
Toluene	<23.8	U	50.0	23.8	ug/L			11/14/23 15:14	50

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-23

Lab Sample ID: 860-61242-6

Date Collected: 11/09/23 14:12

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<18.4	U	50.0	18.4	ug/L			11/14/23 15:14	50
trans-1,3-Dichloropropene	<63.4	U	250	63.4	ug/L			11/14/23 15:14	50
trans-1,4-Dichloro-2-butene	<67.5	U	500	67.5	ug/L			11/14/23 15:14	50
Trichloroethene	<39.6	U	250	39.6	ug/L			11/14/23 15:14	50
Trichlorofluoromethane	<28.0	U	50.0	28.0	ug/L			11/14/23 15:14	50
Vinyl acetate	<107	U	1000	107	ug/L			11/14/23 15:14	50
Vinyl chloride	<21.4	U	100	21.4	ug/L			11/14/23 15:14	50
Xylenes, Total	<62.0	U	500	62.0	ug/L			11/14/23 15:14	50
m,p-Xylenes	<0.0620	U	0.500	0.0620	mg/L			11/14/23 15:14	50
o-Xylene	<0.0251	U	0.0500	0.0251	mg/L			11/14/23 15:14	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		11/14/23 15:14	50
4-Bromofluorobenzene (Surr)	100		74 - 124		11/14/23 15:14	50
Dibromofluoromethane (Surr)	96		75 - 131		11/14/23 15:14	50
Toluene-d8 (Surr)	101		80 - 120		11/14/23 15:14	50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<3.36	U	10.0	3.36	ug/L		11/14/23 12:29	11/16/23 21:42	5
1,2,4-Trichlorobenzene	<3.40	U	10.0	3.40	ug/L		11/14/23 12:29	11/16/23 21:42	5
1,2-Dichlorobenzene	1.55	J	10.0	1.48	ug/L		11/14/23 12:29	11/16/23 21:42	5
1,3,5-Trinitrobenzene	<7.15	U	10.0	7.15	ug/L		11/14/23 12:29	11/16/23 21:42	5
1,3-Dichlorobenzene	<1.75	U	10.0	1.75	ug/L		11/14/23 12:29	11/16/23 21:42	5
1,3-Dinitrobenzene	<0.560	U	10.0	0.560	ug/L		11/14/23 12:29	11/16/23 21:42	5
1,4-Dichlorobenzene	<2.14	U	10.0	2.14	ug/L		11/14/23 12:29	11/16/23 21:42	5
1,4-Naphthoquinone	<9.25	U	40.0	9.25	ug/L		11/14/23 12:29	11/16/23 21:42	5
1-Naphthylamine	<1.16	U	10.0	1.16	ug/L		11/14/23 12:29	11/16/23 21:42	5
2,2'-oxybis[1-chloropropane]	<0.695	U	10.0	0.695	ug/L		11/14/23 12:29	11/16/23 21:42	5
2,3,4,6-Tetrachlorophenol	<0.871	U	10.0	0.871	ug/L		11/14/23 12:29	11/16/23 21:42	5
2,4,5-Trichlorophenol	<0.541	U	10.0	0.541	ug/L		11/14/23 12:29	11/16/23 21:42	5
2,4,6-Trichlorophenol	<0.676	U	10.0	0.676	ug/L		11/14/23 12:29	11/16/23 21:42	5
2,4-Dichlorophenol	<0.573	U	10.0	0.573	ug/L		11/14/23 12:29	11/16/23 21:42	5
2,4-Dimethylphenol	<0.738	U	10.0	0.738	ug/L		11/14/23 12:29	11/16/23 21:42	5
2,4-Dinitrophenol	<7.28	U	40.0	7.28	ug/L		11/14/23 12:29	11/16/23 21:42	5
2,4-Dinitrotoluene	<0.635	U	10.0	0.635	ug/L		11/14/23 12:29	11/16/23 21:42	5
2,6-Dichlorophenol	<0.628	U	10.0	0.628	ug/L		11/14/23 12:29	11/16/23 21:42	5
2,6-Dinitrotoluene	<0.993	U	10.0	0.993	ug/L		11/14/23 12:29	11/16/23 21:42	5
2-Acetylaminofluorene	<7.60	U	40.0	7.60	ug/L		11/14/23 12:29	11/16/23 21:42	5
2-Chloronaphthalene	<5.44	U	40.0	5.44	ug/L		11/14/23 12:29	11/16/23 21:42	5
2-Chlorophenol	<0.0676	U	10.0	0.0676	ug/L		11/14/23 12:29	11/16/23 21:42	5
2-Methylnaphthalene	<2.40	U	10.0	2.40	ug/L		11/14/23 12:29	11/16/23 21:42	5
2-Methylphenol	<0.797	U	10.0	0.797	ug/L		11/14/23 12:29	11/16/23 21:42	5
2-Naphthylamine	<2.98	U	40.0	2.98	ug/L		11/14/23 12:29	11/16/23 21:42	5
2-Nitroaniline	<0.814	U	20.0	0.814	ug/L		11/14/23 12:29	11/16/23 21:42	5
2-Nitrophenol	<0.674	U	10.0	0.674	ug/L		11/14/23 12:29	11/16/23 21:42	5
2-Picoline	<1.08	U	10.0	1.08	ug/L		11/14/23 12:29	11/16/23 21:42	5
2-Toluidine	<4.67	U	40.0	4.67	ug/L		11/14/23 12:29	11/16/23 21:42	5
3 & 4 Methylphenol	<0.814	U	10.0	0.814	ug/L		11/14/23 12:29	11/16/23 21:42	5
3,3'-Dichlorobenzidine	<1.10	U	20.0	1.10	ug/L		11/14/23 12:29	11/16/23 21:42	5

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-23

Lab Sample ID: 860-61242-6

Date Collected: 11/09/23 14:12

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dimethylbenzidine	<2.22	U *	40.0	2.22	ug/L		11/14/23 12:29	11/16/23 21:42	5
3-Methylcholanthrene	<0.793	U	40.0	0.793	ug/L		11/14/23 12:29	11/16/23 21:42	5
3-Nitroaniline	<1.72	U	10.0	1.72	ug/L		11/14/23 12:29	11/16/23 21:42	5
4,6-Dinitro-2-methylphenol	<3.68	U	40.0	3.68	ug/L		11/14/23 12:29	11/16/23 21:42	5
4-Aminobiphenyl	<1.48	U	40.0	1.48	ug/L		11/14/23 12:29	11/16/23 21:42	5
4-Bromophenyl phenyl ether	<0.836	U	10.0	0.836	ug/L		11/14/23 12:29	11/16/23 21:42	5
4-Chloro-3-methylphenol	<0.784	U	10.0	0.784	ug/L		11/14/23 12:29	11/16/23 21:42	5
4-Chloroaniline	<0.745	U	20.0	0.745	ug/L		11/14/23 12:29	11/16/23 21:42	5
4-Chlorophenyl phenyl ether	<1.16	U	10.0	1.16	ug/L		11/14/23 12:29	11/16/23 21:42	5
4-Nitroaniline	<1.23	U	20.0	1.23	ug/L		11/14/23 12:29	11/16/23 21:42	5
4-Nitroquinoline-1-oxide	<10.8	U	20.0	10.8	ug/L		11/14/23 12:29	11/16/23 21:42	5
7,12-Dimethylbenz(a)anthracene	<0.305	U	40.0	0.305	ug/L		11/14/23 12:29	11/16/23 21:42	5
Acenaphthene	<1.04	U	10.0	1.04	ug/L		11/14/23 12:29	11/16/23 21:42	5
Acenaphthylene	<1.07	U	10.0	1.07	ug/L		11/14/23 12:29	11/16/23 21:42	5
Acetophenone	<1.12	U	20.0	1.12	ug/L		11/14/23 12:29	11/16/23 21:42	5
alpha,alpha-Dimethyl phenethylamine	<20.0	U	20.0	20.0	ug/L		11/14/23 12:29	11/16/23 21:42	5
Aniline	<1.57	U	20.0	1.57	ug/L		11/14/23 12:29	11/16/23 21:42	5
Anthracene	<0.769	U	10.0	0.769	ug/L		11/14/23 12:29	11/16/23 21:42	5
Aramite, Total	<3.35	U	20.0	3.35	ug/L		11/14/23 12:29	11/16/23 21:42	5
Benzo[a]anthracene	<0.750	U	10.0	0.750	ug/L		11/14/23 12:29	11/16/23 21:42	5
Benzo[a]pyrene	<0.738	U	10.0	0.738	ug/L		11/14/23 12:29	11/16/23 21:42	5
Benzo[b]fluoranthene	<1.05	U	10.0	1.05	ug/L		11/14/23 12:29	11/16/23 21:42	5
Benzo[g,h,i]perylene	<0.714	U	10.0	0.714	ug/L		11/14/23 12:29	11/16/23 21:42	5
Benzo[k]fluoranthene	<0.831	U	10.0	0.831	ug/L		11/14/23 12:29	11/16/23 21:42	5
Benzyl alcohol	<22.5	U	40.0	22.5	ug/L		11/14/23 12:29	11/16/23 21:42	5
Bis(2-chloroethoxy)methane	<0.850	U	10.0	0.850	ug/L		11/14/23 12:29	11/16/23 21:42	5
Bis(2-chloroethyl)ether	<1.39	U	10.0	1.39	ug/L		11/14/23 12:29	11/16/23 21:42	5
Bis(2-ethylhexyl) phthalate	<1.12	U	10.0	1.12	ug/L		11/14/23 12:29	11/16/23 21:42	5
Butyl benzyl phthalate	<0.750	U	10.0	0.750	ug/L		11/14/23 12:29	11/16/23 21:42	5
Chrysene	<0.797	U	10.0	0.797	ug/L		11/14/23 12:29	11/16/23 21:42	5
Diallate	<3.01	U	40.0	3.01	ug/L		11/14/23 12:29	11/16/23 21:42	5
Dibenz(a,h)anthracene	<0.738	U	10.0	0.738	ug/L		11/14/23 12:29	11/16/23 21:42	5
Dibenzofuran	<1.68	U	10.0	1.68	ug/L		11/14/23 12:29	11/16/23 21:42	5
Diethyl phthalate	<0.589	U	10.0	0.589	ug/L		11/14/23 12:29	11/16/23 21:42	5
Dimethoate	<8.49	U	40.0	8.49	ug/L		11/14/23 12:29	11/16/23 21:42	5
Dimethyl phthalate	<0.713	U	10.0	0.713	ug/L		11/14/23 12:29	11/16/23 21:42	5
Di-n-butyl phthalate	<4.00	U	10.0	4.00	ug/L		11/14/23 12:29	11/16/23 21:42	5
Di-n-octyl phthalate	<0.846	U	10.0	0.846	ug/L		11/14/23 12:29	11/16/23 21:42	5
Dinoseb	<10.0	U	20.0	10.0	ug/L		11/14/23 12:29	11/16/23 21:42	5
Disulfoton	<6.96	U	40.0	6.96	ug/L		11/14/23 12:29	11/16/23 21:42	5
Ethyl methanesulfonate	<6.91	U	20.0	6.91	ug/L		11/14/23 12:29	11/16/23 21:42	5
Ethyl Parathion	<7.07	U	20.0	7.07	ug/L		11/14/23 12:29	11/16/23 21:42	5
Famphur	<40.0	U	40.0	40.0	ug/L		11/14/23 12:29	11/16/23 21:42	5
Fluoranthene	<0.738	U	10.0	0.738	ug/L		11/14/23 12:29	11/16/23 21:42	5
Fluorene	1.48	J	10.0	1.03	ug/L		11/14/23 12:29	11/16/23 21:42	5
Hexachlorobenzene	<0.628	U	10.0	0.628	ug/L		11/14/23 12:29	11/16/23 21:42	5
Hexachlorobutadiene	<1.26	U	10.0	1.26	ug/L		11/14/23 12:29	11/16/23 21:42	5
Hexachlorocyclopentadiene	<2.16	U	10.0	2.16	ug/L		11/14/23 12:29	11/16/23 21:42	5
Hexachloroethane	<0.700	U	10.0	0.700	ug/L		11/14/23 12:29	11/16/23 21:42	5

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-23

Lab Sample ID: 860-61242-6

Date Collected: 11/09/23 14:12

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloropropene	<1.07	U	20.0	1.07	ug/L		11/14/23 12:29	11/16/23 21:42	5
Indeno[1,2,3-cd]pyrene	<4.26	U	10.0	4.26	ug/L		11/14/23 12:29	11/16/23 21:42	5
Isophorone	<0.840	U	10.0	0.840	ug/L		11/14/23 12:29	11/16/23 21:42	5
Isosafrole	<12.3	U	30.0	12.3	ug/L		11/14/23 12:29	11/16/23 21:42	5
Methapyrilene	<0.905	U	10.0	0.905	ug/L		11/14/23 12:29	11/16/23 21:42	5
Methyl methanesulfonate	<0.305	U	10.0	0.305	ug/L		11/14/23 12:29	11/16/23 21:42	5
Methyl parathion	<8.22	U	20.0	8.22	ug/L		11/14/23 12:29	11/16/23 21:42	5
Naphthalene	16.3		10.0	2.11	ug/L		11/14/23 12:29	11/16/23 21:42	5
Nitrobenzene	<4.67	U	10.0	4.67	ug/L		11/14/23 12:29	11/16/23 21:42	5
N-Nitro-o-toluidine	<6.55	U	40.0	6.55	ug/L		11/14/23 12:29	11/16/23 21:42	5
N-Nitrosodiethylamine	<7.70	U	20.0	7.70	ug/L		11/14/23 12:29	11/16/23 21:42	5
N-Nitrosodimethylamine	<0.628	U	10.0	0.628	ug/L		11/14/23 12:29	11/16/23 21:42	5
N-Nitrosodi-n-butylamine	<7.70	U	10.0	7.70	ug/L		11/14/23 12:29	11/16/23 21:42	5
N-Nitrosodi-n-propylamine	<0.807	U	10.0	0.807	ug/L		11/14/23 12:29	11/16/23 21:42	5
N-Nitrosodiphenylamine	<0.773	U	10.0	0.773	ug/L		11/14/23 12:29	11/16/23 21:42	5
N-Nitrosomethylethylamine	<0.994	U	10.0	0.994	ug/L		11/14/23 12:29	11/16/23 21:42	5
N-Nitrosomorpholine	<7.21	U	20.0	7.21	ug/L		11/14/23 12:29	11/16/23 21:42	5
N-Nitrosopiperidine	<7.20	U	20.0	7.20	ug/L		11/14/23 12:29	11/16/23 21:42	5
N-Nitrosopyrrolidine	<6.90	U	20.0	6.90	ug/L		11/14/23 12:29	11/16/23 21:42	5
o,o',o"-Triethylphosphorothioate	8.68	J	40.0	0.290	ug/L		11/14/23 12:29	11/28/23 15:22	5
p-Dimethylamino azobenzene	<0.290	U	40.0	0.290	ug/L		11/14/23 12:29	11/16/23 21:42	5
Pentachlorobenzene	<5.91	U	10.0	5.91	ug/L		11/14/23 12:29	11/16/23 21:42	5
Pentachloronitrobenzene	<6.33	U	10.0	6.33	ug/L		11/14/23 12:29	11/16/23 21:42	5
Pentachlorophenol	<2.20	U	10.0	2.20	ug/L		11/14/23 12:29	11/16/23 21:42	5
Phenacetin	<6.62	U	40.0	6.62	ug/L		11/14/23 12:29	11/16/23 21:42	5
Phenanthrene	2.07	J	10.0	0.882	ug/L		11/14/23 12:29	11/16/23 21:42	5
Phenol	52.2		20.0	1.01	ug/L		11/14/23 12:29	11/16/23 21:42	5
Phorate	<6.99	U	40.0	6.99	ug/L		11/14/23 12:29	11/16/23 21:42	5
p-Phenylene diamine	<50.0	U *	50.0	50.0	ug/L		11/14/23 12:29	11/16/23 21:42	5
Pronamide	<6.93	U	20.0	6.93	ug/L		11/14/23 12:29	11/16/23 21:42	5
Pyrene	<0.797	U	10.0	0.797	ug/L		11/14/23 12:29	11/16/23 21:42	5
Pyridine	<3.62	U	10.0	3.62	ug/L		11/14/23 12:29	11/16/23 21:42	5
Safrole, Total	<0.916	U	20.0	0.916	ug/L		11/14/23 12:29	11/16/23 21:42	5
Sulfotepp	<7.16	U	20.0	7.16	ug/L		11/14/23 12:29	11/16/23 21:42	5
Thionazin	<7.18	U	40.0	7.18	ug/L		11/14/23 12:29	11/16/23 21:42	5
Aramite Peak 2	<13.7	U	20.0	13.7	ug/L		11/14/23 12:29	11/16/23 21:42	5
Isosafrole Peak 1	<12.3	U	30.0	12.3	ug/L		11/14/23 12:29	11/16/23 21:42	5
Diallate Peak 2	<3.01	U	40.0	3.01	ug/L		11/14/23 12:29	11/16/23 21:42	5
Isosafrole Peak 2	<10.6	U	30.0	10.6	ug/L		11/14/23 12:29	11/16/23 21:42	5
Diallate Peak 1	<3.37	U	40.0	3.37	ug/L		11/14/23 12:29	11/16/23 21:42	5
Aramite Peak 1	<3.35	U	20.0	3.35	ug/L		11/14/23 12:29	11/16/23 21:42	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		31 - 132	11/14/23 12:29	11/16/23 21:42	5
2,4,6-Tribromophenol (Surr)	92		31 - 132	11/14/23 12:29	11/28/23 15:22	5
2-Fluorobiphenyl	77		40 - 130	11/14/23 12:29	11/16/23 21:42	5
2-Fluorobiphenyl	77		40 - 130	11/14/23 12:29	11/28/23 15:22	5
2-Fluorophenol (Surr)	50		21 - 114	11/14/23 12:29	11/16/23 21:42	5
2-Fluorophenol (Surr)	53		21 - 114	11/14/23 12:29	11/28/23 15:22	5
Nitrobenzene-d5 (Surr)	60		37 - 130	11/14/23 12:29	11/16/23 21:42	5

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-23

Lab Sample ID: 860-61242-6

Date Collected: 11/09/23 14:12

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	54		37 - 130	11/14/23 12:29	11/28/23 15:22	5
Phenol-d5 (Surr)	33		16 - 117	11/14/23 12:29	11/16/23 21:42	5
Phenol-d5 (Surr)	32		16 - 117	11/14/23 12:29	11/28/23 15:22	5
p-Terphenyl-d14	88		20 - 141	11/14/23 12:29	11/16/23 21:42	5
p-Terphenyl-d14	102		20 - 141	11/14/23 12:29	11/28/23 15:22	5

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	343		100	21.4	ug/L		11/14/23 12:29	11/15/23 21:20	50
Diphenyl ether	1700		400	18.2	ug/L		11/14/23 12:29	11/15/23 21:20	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/14/23 12:29	11/15/23 21:20	50
2-Fluorobiphenyl	72		40 - 130	11/14/23 12:29	11/15/23 21:20	50
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/14/23 12:29	11/15/23 21:20	50
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/14/23 12:29	11/15/23 21:20	50
Phenol-d5 (Surr)	0	S1-	16 - 117	11/14/23 12:29	11/15/23 21:20	50
p-Terphenyl-d14	82		20 - 141	11/14/23 12:29	11/15/23 21:20	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	294		33.3	8.75	ug/L		11/14/23 10:57	11/18/23 04:21	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	124		37 - 133	11/14/23 10:57	11/18/23 04:21	50

Client Sample ID: FB-01(110923)

Lab Sample ID: 860-61242-7

Date Collected: 11/09/23 14:12

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 22:55	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 22:55	1
1,1,1,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 22:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 22:55	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 22:55	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 22:55	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 22:55	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 22:55	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 22:55	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 22:55	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 22:55	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 22:55	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 22:55	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 22:55	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 22:55	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 22:55	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 22:55	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 22:55	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: FB-01(110923)

Lab Sample ID: 860-61242-7

Date Collected: 11/09/23 14:12

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 22:55	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 22:55	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 22:55	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 22:55	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 22:55	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 22:55	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 22:55	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 22:55	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 22:55	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 22:55	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 22:55	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 22:55	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 22:55	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 22:55	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 22:55	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 22:55	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 22:55	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 22:55	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 22:55	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 22:55	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 22:55	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 22:55	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 22:55	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 22:55	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 22:55	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/10/23 22:55	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 22:55	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 22:55	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 22:55	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 22:55	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 22:55	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 22:55	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 22:55	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 22:55	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 22:55	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 22:55	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 22:55	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 22:55	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 22:55	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 22:55	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 22:55	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 22:55	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 22:55	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 22:55	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 22:55	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 22:55	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 22:55	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 22:55	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 22:55	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: FB-01(110923)

Lab Sample ID: 860-61242-7

Date Collected: 11/09/23 14:12

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/10/23 22:55	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/10/23 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144					11/10/23 22:55	1
4-Bromofluorobenzene (Surr)	97		74 - 124					11/10/23 22:55	1
Dibromofluoromethane (Surr)	98		75 - 131					11/10/23 22:55	1
Toluene-d8 (Surr)	99		80 - 120					11/10/23 22:55	1

Client Sample ID: MW-21

Lab Sample ID: 860-61242-8

Date Collected: 11/09/23 15:01

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32.2	U	50.0	32.2	ug/L			11/14/23 15:34	50
1,1,1-Trichloroethane	<29.3	U	250	29.3	ug/L			11/14/23 15:34	50
1,1,2,2-Tetrachloroethane	<23.5	U	50.0	23.5	ug/L			11/14/23 15:34	50
1,1,2-Trichloro-1,2,2-trifluoroethane	<55.5	U	500	55.5	ug/L			11/14/23 15:34	50
1,1,2-Trichloroethane	<20.6	U	50.0	20.6	ug/L			11/14/23 15:34	50
1,1-Dichloroethane	<31.8	U	50.0	31.8	ug/L			11/14/23 15:34	50
1,1-Dichloroethene	<36.9	U	50.0	36.9	ug/L			11/14/23 15:34	50
1,2,3-Trichloropropane	<23.5	U	50.0	23.5	ug/L			11/14/23 15:34	50
1,2,4-Trimethylbenzene	<20.9	U	50.0	20.9	ug/L			11/14/23 15:34	50
1,2-Dibromo-3-Chloropropane	<33.6	U	250	33.6	ug/L			11/14/23 15:34	50
1,2-Dibromoethane	<50.0	U	250	50.0	ug/L			11/14/23 15:34	50
1,2-Dichloroethane	<18.6	U	50.0	18.6	ug/L			11/14/23 15:34	50
1,2-Dichloropropane	<27.8	U	250	27.8	ug/L			11/14/23 15:34	50
1,3,5-Trimethylbenzene	<20.6	U	50.0	20.6	ug/L			11/14/23 15:34	50
1,3-Butadiene	<28.4	U	50.0	28.4	ug/L			11/14/23 15:34	50
2,2,4-Trimethylpentane	<25.0	U	250	25.0	ug/L			11/14/23 15:34	50
2-Butanone (MEK)	<414	U	2500	414	ug/L			11/14/23 15:34	50
2-Hexanone (MBK)	<372	U	2500	372	ug/L			11/14/23 15:34	50
2-Propanol	<261	U	500	261	ug/L			11/14/23 15:34	50
3-Chloropropene (Allyl Chloride)	<29.9	U	250	29.9	ug/L			11/14/23 15:34	50
4-Methyl-2-pentanone	<375	U	2500	375	ug/L			11/14/23 15:34	50
Acetone	<153	U	5000	153	ug/L			11/14/23 15:34	50
Acetonitrile	<730	U	5000	730	ug/L			11/14/23 15:34	50
Acrolein	<556	U	2500	556	ug/L			11/14/23 15:34	50
Acrylonitrile	<716	U	2500	716	ug/L			11/14/23 15:34	50
alpha-Chlorotoluene	<113	U	250	113	ug/L			11/14/23 15:34	50
Benzene	6920		50.0	23.0	ug/L			11/14/23 15:34	50
Bromodichloromethane	<27.6	U	50.0	27.6	ug/L			11/14/23 15:34	50
Bromoform	<31.7	U	250	31.7	ug/L			11/14/23 15:34	50
Bromomethane	<71.0	U	250	71.0	ug/L			11/14/23 15:34	50
Carbon disulfide	<82.5	U	250	82.5	ug/L			11/14/23 15:34	50
Carbon tetrachloride	<44.8	U	250	44.8	ug/L			11/14/23 15:34	50
Chlorobenzene	234		50.0	22.8	ug/L			11/14/23 15:34	50
Chlorodibromomethane	<27.4	U	250	27.4	ug/L			11/14/23 15:34	50
Chloroethane	<99.2	U	500	99.2	ug/L			11/14/23 15:34	50

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-21

Lab Sample ID: 860-61242-8

Date Collected: 11/09/23 15:01

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	24.4	J	50.0	23.2	ug/L			11/14/23 15:34	50
Chloromethane	<102	U	500	102	ug/L			11/14/23 15:34	50
Chloroprene	<29.9	U	250	29.9	ug/L			11/14/23 15:34	50
cis-1,2-Dichloroethene	<22.9	U	50.0	22.9	ug/L			11/14/23 15:34	50
cis-1,3-Dichloropropene	<53.4	U	250	53.4	ug/L			11/14/23 15:34	50
Cumene (isopropylbenzene)	54.1		50.0	29.6	ug/L			11/14/23 15:34	50
Cyclohexane	<64.3	U	250	64.3	ug/L			11/14/23 15:34	50
Dibromomethane	<17.9	U	50.0	17.9	ug/L			11/14/23 15:34	50
Dichlorodifluoromethane	<39.3	U	50.0	39.3	ug/L			11/14/23 15:34	50
Ethyl methacrylate	<55.9	U	250	55.9	ug/L			11/14/23 15:34	50
Ethylbenzene	<19.3	U	50.0	19.3	ug/L			11/14/23 15:34	50
Hexane	<25.9	U	250	25.9	ug/L			11/14/23 15:34	50
Iodomethane	<326	U	1000	326	ug/L			11/14/23 15:34	50
Isobutanol	<855	U	2500	855	ug/L			11/14/23 15:34	50
Methacrylonitrile	<136	U	500	136	ug/L			11/14/23 15:34	50
Methyl methacrylate	<113	U	500	113	ug/L			11/14/23 15:34	50
Methyl tert-butyl ether	<69.6	U	250	69.6	ug/L			11/14/23 15:34	50
Methylene Chloride	<86.3	U	250	86.3	ug/L			11/14/23 15:34	50
Propionitrile	<167	U	500	167	ug/L			11/14/23 15:34	50
Propylbenzene	<21.5	U	50.0	21.5	ug/L			11/14/23 15:34	50
Styrene	<31.0	U	50.0	31.0	ug/L			11/14/23 15:34	50
Tetrachloroethene	<32.8	U	50.0	32.8	ug/L			11/14/23 15:34	50
Tetrahydrofuran	228	J	500	91.7	ug/L			11/14/23 15:34	50
Toluene	3040		50.0	23.8	ug/L			11/14/23 15:34	50
trans-1,2-Dichloroethene	<18.4	U	50.0	18.4	ug/L			11/14/23 15:34	50
trans-1,3-Dichloropropene	<63.4	U	250	63.4	ug/L			11/14/23 15:34	50
trans-1,4-Dichloro-2-butene	<67.5	U	500	67.5	ug/L			11/14/23 15:34	50
Trichloroethene	<39.6	U	250	39.6	ug/L			11/14/23 15:34	50
Trichlorofluoromethane	<28.0	U	50.0	28.0	ug/L			11/14/23 15:34	50
Vinyl acetate	<107	U	1000	107	ug/L			11/14/23 15:34	50
Vinyl chloride	<21.4	U	100	21.4	ug/L			11/14/23 15:34	50
Xylenes, Total	<62.0	U	500	62.0	ug/L			11/14/23 15:34	50
m,p-Xylenes	<0.0620	U	0.500	0.0620	mg/L			11/14/23 15:34	50
o-Xylene	<0.0251	U	0.0500	0.0251	mg/L			11/14/23 15:34	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		11/14/23 15:34	50
4-Bromofluorobenzene (Surr)	99		74 - 124		11/14/23 15:34	50
Dibromofluoromethane (Surr)	97		75 - 131		11/14/23 15:34	50
Toluene-d8 (Surr)	99		80 - 120		11/14/23 15:34	50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<3.36	U	10.0	3.36	ug/L		11/14/23 12:29	11/16/23 19:37	5
1,2,4-Trichlorobenzene	<3.40	U	10.0	3.40	ug/L		11/14/23 12:29	11/16/23 19:37	5
1,2-Dichlorobenzene	1.52	J	10.0	1.48	ug/L		11/14/23 12:29	11/16/23 19:37	5
1,3,5-Trinitrobenzene	<7.15	U	10.0	7.15	ug/L		11/14/23 12:29	11/16/23 19:37	5
1,3-Dichlorobenzene	<1.75	U	10.0	1.75	ug/L		11/14/23 12:29	11/16/23 19:37	5
1,3-Dinitrobenzene	<0.560	U	10.0	0.560	ug/L		11/14/23 12:29	11/16/23 19:37	5
1,4-Dichlorobenzene	2.43	J	10.0	2.14	ug/L		11/14/23 12:29	11/16/23 19:37	5

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-21

Lab Sample ID: 860-61242-8

Date Collected: 11/09/23 15:01

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	<9.25	U	40.0	9.25	ug/L		11/14/23 12:29	11/16/23 19:37	5
1-Naphthylamine	<1.16	U	10.0	1.16	ug/L		11/14/23 12:29	11/16/23 19:37	5
2,2'-oxybis[1-chloropropane]	<0.695	U	10.0	0.695	ug/L		11/14/23 12:29	11/16/23 19:37	5
2,3,4,6-Tetrachlorophenol	<0.871	U	10.0	0.871	ug/L		11/14/23 12:29	11/16/23 19:37	5
2,4,5-Trichlorophenol	<0.541	U	10.0	0.541	ug/L		11/14/23 12:29	11/16/23 19:37	5
2,4,6-Trichlorophenol	<0.676	U	10.0	0.676	ug/L		11/14/23 12:29	11/16/23 19:37	5
2,4-Dichlorophenol	<0.573	U	10.0	0.573	ug/L		11/14/23 12:29	11/16/23 19:37	5
2,4-Dimethylphenol	<0.738	U	10.0	0.738	ug/L		11/14/23 12:29	11/16/23 19:37	5
2,4-Dinitrophenol	<7.28	U	40.0	7.28	ug/L		11/14/23 12:29	11/16/23 19:37	5
2,4-Dinitrotoluene	<0.635	U	10.0	0.635	ug/L		11/14/23 12:29	11/16/23 19:37	5
2,6-Dichlorophenol	<0.628	U	10.0	0.628	ug/L		11/14/23 12:29	11/16/23 19:37	5
2,6-Dinitrotoluene	<0.993	U	10.0	0.993	ug/L		11/14/23 12:29	11/16/23 19:37	5
2-Acetylaminofluorene	<7.60	U	40.0	7.60	ug/L		11/14/23 12:29	11/16/23 19:37	5
2-Chloronaphthalene	<5.44	U	40.0	5.44	ug/L		11/14/23 12:29	11/16/23 19:37	5
2-Chlorophenol	<0.0676	U	10.0	0.0676	ug/L		11/14/23 12:29	11/16/23 19:37	5
2-Methylnaphthalene	<2.40	U	10.0	2.40	ug/L		11/14/23 12:29	11/16/23 19:37	5
2-Methylphenol	8.19	J	10.0	0.797	ug/L		11/14/23 12:29	11/16/23 19:37	5
2-Naphthylamine	<2.98	U	40.0	2.98	ug/L		11/14/23 12:29	11/16/23 19:37	5
2-Nitroaniline	<0.814	U	20.0	0.814	ug/L		11/14/23 12:29	11/16/23 19:37	5
2-Nitrophenol	<0.674	U	10.0	0.674	ug/L		11/14/23 12:29	11/16/23 19:37	5
2-Picoline	<1.08	U	10.0	1.08	ug/L		11/14/23 12:29	11/16/23 19:37	5
2-Toluidine	<4.67	U	40.0	4.67	ug/L		11/14/23 12:29	11/16/23 19:37	5
3 & 4 Methylphenol	27.0		10.0	0.814	ug/L		11/14/23 12:29	11/16/23 19:37	5
3,3'-Dichlorobenzidine	<1.10	U	20.0	1.10	ug/L		11/14/23 12:29	11/16/23 19:37	5
3,3'-Dimethylbenzidine	<2.22	U *	40.0	2.22	ug/L		11/14/23 12:29	11/16/23 19:37	5
3-Methylcholanthrene	<0.793	U	40.0	0.793	ug/L		11/14/23 12:29	11/16/23 19:37	5
3-Nitroaniline	<1.72	U	10.0	1.72	ug/L		11/14/23 12:29	11/16/23 19:37	5
4,6-Dinitro-2-methylphenol	<3.68	U	40.0	3.68	ug/L		11/14/23 12:29	11/16/23 19:37	5
4-Aminobiphenyl	<1.48	U	40.0	1.48	ug/L		11/14/23 12:29	11/16/23 19:37	5
4-Bromophenyl phenyl ether	<0.836	U	10.0	0.836	ug/L		11/14/23 12:29	11/16/23 19:37	5
4-Chloro-3-methylphenol	<0.784	U	10.0	0.784	ug/L		11/14/23 12:29	11/16/23 19:37	5
4-Chloroaniline	<0.745	U	20.0	0.745	ug/L		11/14/23 12:29	11/16/23 19:37	5
4-Chlorophenyl phenyl ether	<1.16	U	10.0	1.16	ug/L		11/14/23 12:29	11/16/23 19:37	5
4-Nitroaniline	<1.23	U	20.0	1.23	ug/L		11/14/23 12:29	11/16/23 19:37	5
4-Nitroquinoline-1-oxide	<10.8	U	20.0	10.8	ug/L		11/14/23 12:29	11/16/23 19:37	5
7,12-Dimethylbenz(a)anthracene	<0.305	U	40.0	0.305	ug/L		11/14/23 12:29	11/16/23 19:37	5
Acenaphthene	<1.04	U	10.0	1.04	ug/L		11/14/23 12:29	11/16/23 19:37	5
Acenaphthylene	<1.07	U	10.0	1.07	ug/L		11/14/23 12:29	11/16/23 19:37	5
Acetophenone	<1.12	U	20.0	1.12	ug/L		11/14/23 12:29	11/16/23 19:37	5
alpha,alpha-Dimethyl phenethylamine	<20.0	U	20.0	20.0	ug/L		11/14/23 12:29	11/16/23 19:37	5
Aniline	<1.57	U	20.0	1.57	ug/L		11/14/23 12:29	11/16/23 19:37	5
Anthracene	<0.769	U	10.0	0.769	ug/L		11/14/23 12:29	11/16/23 19:37	5
Aramite, Total	<3.35	U	20.0	3.35	ug/L		11/14/23 12:29	11/16/23 19:37	5
Benzo[a]anthracene	<0.750	U	10.0	0.750	ug/L		11/14/23 12:29	11/16/23 19:37	5
Benzo[a]pyrene	<0.738	U	10.0	0.738	ug/L		11/14/23 12:29	11/16/23 19:37	5
Benzo[b]fluoranthene	<1.05	U	10.0	1.05	ug/L		11/14/23 12:29	11/16/23 19:37	5
Benzo[g,h,i]perylene	<0.714	U	10.0	0.714	ug/L		11/14/23 12:29	11/16/23 19:37	5
Benzo[k]fluoranthene	<0.831	U	10.0	0.831	ug/L		11/14/23 12:29	11/16/23 19:37	5
Benzyl alcohol	<22.5	U	40.0	22.5	ug/L		11/14/23 12:29	11/16/23 19:37	5

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-21

Lab Sample ID: 860-61242-8

Date Collected: 11/09/23 15:01

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<0.850	U	10.0	0.850	ug/L		11/14/23 12:29	11/16/23 19:37	5
Bis(2-chloroethyl)ether	<1.39	U	10.0	1.39	ug/L		11/14/23 12:29	11/16/23 19:37	5
Bis(2-ethylhexyl) phthalate	<1.12	U	10.0	1.12	ug/L		11/14/23 12:29	11/16/23 19:37	5
Butyl benzyl phthalate	<0.750	U	10.0	0.750	ug/L		11/14/23 12:29	11/16/23 19:37	5
Chrysene	<0.797	U	10.0	0.797	ug/L		11/14/23 12:29	11/16/23 19:37	5
Diallate	<3.01	U	40.0	3.01	ug/L		11/14/23 12:29	11/16/23 19:37	5
Dibenz(a,h)anthracene	<0.738	U	10.0	0.738	ug/L		11/14/23 12:29	11/16/23 19:37	5
Dibenzofuran	<1.68	U	10.0	1.68	ug/L		11/14/23 12:29	11/16/23 19:37	5
Diethyl phthalate	<0.589	U	10.0	0.589	ug/L		11/14/23 12:29	11/16/23 19:37	5
Dimethoate	<8.49	U	40.0	8.49	ug/L		11/14/23 12:29	11/16/23 19:37	5
Dimethyl phthalate	<0.713	U	10.0	0.713	ug/L		11/14/23 12:29	11/16/23 19:37	5
Di-n-butyl phthalate	<4.00	U	10.0	4.00	ug/L		11/14/23 12:29	11/16/23 19:37	5
Di-n-octyl phthalate	<0.846	U	10.0	0.846	ug/L		11/14/23 12:29	11/16/23 19:37	5
Dinoseb	<10.0	U	20.0	10.0	ug/L		11/14/23 12:29	11/16/23 19:37	5
Disulfoton	<6.96	U	40.0	6.96	ug/L		11/14/23 12:29	11/16/23 19:37	5
Ethyl methanesulfonate	<6.91	U	20.0	6.91	ug/L		11/14/23 12:29	11/16/23 19:37	5
Ethyl Parathion	<7.07	U	20.0	7.07	ug/L		11/14/23 12:29	11/16/23 19:37	5
Famphur	<40.0	U	40.0	40.0	ug/L		11/14/23 12:29	11/16/23 19:37	5
Fluoranthene	<0.738	U	10.0	0.738	ug/L		11/14/23 12:29	11/16/23 19:37	5
Fluorene	<1.03	U	10.0	1.03	ug/L		11/14/23 12:29	11/16/23 19:37	5
Hexachlorobenzene	<0.628	U	10.0	0.628	ug/L		11/14/23 12:29	11/16/23 19:37	5
Hexachlorobutadiene	<1.26	U	10.0	1.26	ug/L		11/14/23 12:29	11/16/23 19:37	5
Hexachlorocyclopentadiene	<2.16	U	10.0	2.16	ug/L		11/14/23 12:29	11/16/23 19:37	5
Hexachloroethane	<0.700	U	10.0	0.700	ug/L		11/14/23 12:29	11/16/23 19:37	5
Hexachloropropene	<1.07	U	20.0	1.07	ug/L		11/14/23 12:29	11/16/23 19:37	5
Indeno[1,2,3-cd]pyrene	<4.26	U	10.0	4.26	ug/L		11/14/23 12:29	11/16/23 19:37	5
Isophorone	<0.840	U	10.0	0.840	ug/L		11/14/23 12:29	11/16/23 19:37	5
Isosafrole	<12.3	U	30.0	12.3	ug/L		11/14/23 12:29	11/16/23 19:37	5
Methapyrilene	<0.905	U	10.0	0.905	ug/L		11/14/23 12:29	11/16/23 19:37	5
Methyl methanesulfonate	<0.305	U	10.0	0.305	ug/L		11/14/23 12:29	11/16/23 19:37	5
Methyl parathion	<8.22	U	20.0	8.22	ug/L		11/14/23 12:29	11/16/23 19:37	5
Naphthalene	17.4		10.0	2.11	ug/L		11/14/23 12:29	11/16/23 19:37	5
Nitrobenzene	<4.67	U	10.0	4.67	ug/L		11/14/23 12:29	11/16/23 19:37	5
N-Nitro-o-toluidine	<6.55	U	40.0	6.55	ug/L		11/14/23 12:29	11/16/23 19:37	5
N-Nitrosodiethylamine	<7.70	U	20.0	7.70	ug/L		11/14/23 12:29	11/16/23 19:37	5
N-Nitrosodimethylamine	<0.628	U	10.0	0.628	ug/L		11/14/23 12:29	11/16/23 19:37	5
N-Nitrosodi-n-butylamine	<7.70	U	10.0	7.70	ug/L		11/14/23 12:29	11/16/23 19:37	5
N-Nitrosodi-n-propylamine	<0.807	U	10.0	0.807	ug/L		11/14/23 12:29	11/16/23 19:37	5
N-Nitrosodiphenylamine	<0.773	U	10.0	0.773	ug/L		11/14/23 12:29	11/16/23 19:37	5
N-Nitrosomethylethylamine	<0.994	U	10.0	0.994	ug/L		11/14/23 12:29	11/16/23 19:37	5
N-Nitrosomorpholine	<7.21	U	20.0	7.21	ug/L		11/14/23 12:29	11/16/23 19:37	5
N-Nitrosopiperidine	<7.20	U	20.0	7.20	ug/L		11/14/23 12:29	11/16/23 19:37	5
N-Nitrosopyrrolidine	<6.90	U	20.0	6.90	ug/L		11/14/23 12:29	11/16/23 19:37	5
o,o',o"-Triethylphosphorothioate	<0.290	U	40.0	0.290	ug/L		11/14/23 12:29	11/16/23 19:37	5
p-Dimethylamino azobenzene	<0.290	U	40.0	0.290	ug/L		11/14/23 12:29	11/16/23 19:37	5
Pentachlorobenzene	<5.91	U	10.0	5.91	ug/L		11/14/23 12:29	11/16/23 19:37	5
Pentachloronitrobenzene	<6.33	U	10.0	6.33	ug/L		11/14/23 12:29	11/16/23 19:37	5
Pentachlorophenol	<2.20	U	10.0	2.20	ug/L		11/14/23 12:29	11/16/23 19:37	5
Phenacetin	<6.62	U	40.0	6.62	ug/L		11/14/23 12:29	11/16/23 19:37	5

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: MW-21

Lab Sample ID: 860-61242-8

Date Collected: 11/09/23 15:01

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<0.882	U	10.0	0.882	ug/L		11/14/23 12:29	11/16/23 19:37	5
Phenol	52.4		20.0	1.01	ug/L		11/14/23 12:29	11/16/23 19:37	5
Phorate	<6.99	U	40.0	6.99	ug/L		11/14/23 12:29	11/16/23 19:37	5
p-Phenylene diamine	<50.0	U *	50.0	50.0	ug/L		11/14/23 12:29	11/16/23 19:37	5
Pronamide	<6.93	U	20.0	6.93	ug/L		11/14/23 12:29	11/16/23 19:37	5
Pyrene	<0.797	U	10.0	0.797	ug/L		11/14/23 12:29	11/16/23 19:37	5
Pyridine	<3.62	U	10.0	3.62	ug/L		11/14/23 12:29	11/16/23 19:37	5
Safrole, Total	<0.916	U	20.0	0.916	ug/L		11/14/23 12:29	11/16/23 19:37	5
Sulfotepp	<7.16	U	20.0	7.16	ug/L		11/14/23 12:29	11/16/23 19:37	5
Thionazin	<7.18	U	40.0	7.18	ug/L		11/14/23 12:29	11/16/23 19:37	5
Aramite Peak 2	<13.7	U	20.0	13.7	ug/L		11/14/23 12:29	11/16/23 19:37	5
Isosafrole Peak 1	<12.3	U	30.0	12.3	ug/L		11/14/23 12:29	11/16/23 19:37	5
Diallate Peak 2	<3.01	U	40.0	3.01	ug/L		11/14/23 12:29	11/16/23 19:37	5
Isosafrole Peak 2	<10.6	U	30.0	10.6	ug/L		11/14/23 12:29	11/16/23 19:37	5
Diallate Peak 1	<3.37	U	40.0	3.37	ug/L		11/14/23 12:29	11/16/23 19:37	5
Aramite Peak 1	<3.35	U	20.0	3.35	ug/L		11/14/23 12:29	11/16/23 19:37	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		31 - 132	11/14/23 12:29	11/16/23 19:37	5
2-Fluorobiphenyl	85		40 - 130	11/14/23 12:29	11/16/23 19:37	5
2-Fluorophenol (Surr)	39		21 - 114	11/14/23 12:29	11/16/23 19:37	5
Nitrobenzene-d5 (Surr)	64		37 - 130	11/14/23 12:29	11/16/23 19:37	5
Phenol-d5 (Surr)	30		16 - 117	11/14/23 12:29	11/16/23 19:37	5
p-Terphenyl-d14	89		20 - 141	11/14/23 12:29	11/16/23 19:37	5

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	541		100	21.4	ug/L		11/14/23 12:29	11/16/23 19:58	50
Diphenyl ether	2300		400	18.2	ug/L		11/14/23 12:29	11/16/23 19:58	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		31 - 132	11/14/23 12:29	11/16/23 19:58	50
2-Fluorobiphenyl	87		40 - 130	11/14/23 12:29	11/16/23 19:58	50
2-Fluorophenol (Surr)	36		21 - 114	11/14/23 12:29	11/16/23 19:58	50
Nitrobenzene-d5 (Surr)	102		37 - 130	11/14/23 12:29	11/16/23 19:58	50
Phenol-d5 (Surr)	44		16 - 117	11/14/23 12:29	11/16/23 19:58	50
p-Terphenyl-d14	114		20 - 141	11/14/23 12:29	11/16/23 19:58	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	258		33.3	8.75	ug/L		11/14/23 10:57	11/18/23 04:51	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	117		37 - 133				11/14/23 10:57	11/18/23 04:51	50

Eurofins Houston

Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-61082-E-1 MS	Matrix Spike	92	98	99	98
860-61132-I-2 MS	Matrix Spike	103	111	105	101
860-61182-I-2 MS	Matrix Spike	105	105	105	101
860-61242-1	TB-05(110923)	96	97	99	98
860-61242-2	MW-13	97	98	98	98
860-61242-2 - DL	MW-13	118	112	115	104
860-61242-3	MW-8	98	96	98	98
860-61242-3 - DL	MW-8	118	108	112	105
860-61242-4	MW-17	92	103	105	99
860-61242-4 - DL	MW-17	95	97	99	98
860-61242-4 - DL2	MW-17	114	111	105	106
860-61242-4 - DL3	MW-17	115	103	115	107
860-61242-5	DUP-01	97	98	101	98
860-61242-5 - DL	DUP-01	116	112	114	105
860-61242-6	MW-23	100	100	96	101
860-61242-7	FB-01(110923)	97	97	98	99
860-61242-8	MW-21	101	99	97	99
860-61260-H-2 MS	Matrix Spike	99	101	99	100
LCS 860-130579/3	Lab Control Sample	93	97	99	98
LCS 860-130814/3	Lab Control Sample	104	110	108	100
LCS 860-130880/3	Lab Control Sample	99	101	101	100
LCS 860-130977/3	Lab Control Sample	104	106	105	100
LCSD 860-130579/4	Lab Control Sample Dup	93	96	99	97
LCSD 860-130814/4	Lab Control Sample Dup	104	111	107	102
LCSD 860-130880/4	Lab Control Sample Dup	98	102	100	100
LCSD 860-130977/4	Lab Control Sample Dup	105	111	104	104
MB 860-130579/9	Method Blank	98	97	99	98
MB 860-130814/9	Method Blank	107	113	108	99
MB 860-130880/9	Method Blank	101	100	96	98
MB 860-130977/9	Method Blank	105	115	106	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	2FP (19-120)	FBP (43-130)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-61242-2	MW-13				130		
860-61242-3	MW-8				152 S1+		
860-61242-4	MW-17				166 S1+		
860-61242-5	DUP-01				131		
860-61242-6	MW-23				124		
860-61242-8	MW-21				117		
LCS 860-130949/2-A	Lab Control Sample	78	37	80	110	23	112

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Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	2FP (19-120)	FBP (43-130)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
LCSD 860-130949/3-A	Lab Control Sample Dup	76	39	82	111	25	113
MB 860-130949/1-A	Method Blank	68	46	89	102	32	92

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 2FP = 2-Fluorophenol (Surr)
 FBP = 2-Fluorobiphenyl
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (31-132)	FBP (40-130)	2FP (21-114)	NBZ (37-130)	PHL (16-117)	TPHd14 (20-141)
860-61028-H-17-B MS	Matrix Spike	61	58	43	60	42	71
860-61028-H-17-C MSD	Matrix Spike Duplicate	68	57	47	62	41	103
860-61242-2	MW-13	92	61	31	41	21	112
860-61242-3	MW-8	71	66	40	55	19	100
860-61242-4	MW-17	83	70	45	71	27	94
860-61242-4 - DL	MW-17	0 S1-	72	54	0 S1-	0 S1-	113
860-61242-5	DUP-01	68	60	40	59	22	87
860-61242-5	DUP-01	58	58	29	51	0 S1-	97
860-61242-6 - DL	MW-23	0 S1-	72	0 S1-	0 S1-	0 S1-	82
860-61242-6	MW-23	82	77	50	60	33	88
860-61242-6	MW-23	92	77	53	54	32	102
860-61242-8	MW-21	96	85	39	64	30	89
860-61242-8 - DL	MW-21	75	87	36	102	44	114
LCS 860-130871/2-A	Lab Control Sample	59	55	45	60	34	98
LCS 860-130968/2-A	Lab Control Sample	72	72	50	67	41	85
LCSD 860-130871/3-A	Lab Control Sample Dup	65	58	42	62	34	92
LCSD 860-130968/3-A	Lab Control Sample Dup	84	78	59	77	46	96
MB 860-130871/1-A	Method Blank	42	53	37	56	29	97
MB 860-130968/1-A	Method Blank	55	70	51	67	38	101

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHd14 = p-Terphenyl-d14

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-130579/9

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 22:14	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 22:14	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 22:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 22:14	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 22:14	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 22:14	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 22:14	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 22:14	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 22:14	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 22:14	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 22:14	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 22:14	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 22:14	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 22:14	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 22:14	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 22:14	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 22:14	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 22:14	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 22:14	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 22:14	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 22:14	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 22:14	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 22:14	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 22:14	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 22:14	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 22:14	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 22:14	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 22:14	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 22:14	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 22:14	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 22:14	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 22:14	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 22:14	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 22:14	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 22:14	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 22:14	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 22:14	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 22:14	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 22:14	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 22:14	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 22:14	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 22:14	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 22:14	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/10/23 22:14	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 22:14	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 22:14	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 22:14	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 22:14	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130579/9

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 22:14	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 22:14	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 22:14	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 22:14	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 22:14	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 22:14	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 22:14	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 22:14	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 22:14	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 22:14	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 22:14	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 22:14	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 22:14	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 22:14	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 22:14	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 22:14	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 22:14	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 22:14	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 22:14	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/10/23 22:14	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/10/23 22:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		11/10/23 22:14	1
4-Bromofluorobenzene (Surr)	97		74 - 124		11/10/23 22:14	1
Dibromofluoromethane (Surr)	99		75 - 131		11/10/23 22:14	1
Toluene-d8 (Surr)	98		80 - 120		11/10/23 22:14	1

Lab Sample ID: LCS 860-130579/3

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	48.65		ug/L		97	72 - 125
1,1,1-Trichloroethane	50.0	46.86		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.33		ug/L		99	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.50		ug/L		107	60 - 140
1,1,2-Trichloroethane	50.0	48.76		ug/L		98	70 - 130
1,1-Dichloroethane	50.0	46.80		ug/L		94	70 - 130
1,1-Dichloroethene	50.0	47.10		ug/L		94	50 - 150
1,2,3-Trichloropropane	50.0	46.94		ug/L		94	75 - 125
1,2,4-Trimethylbenzene	50.0	48.26		ug/L		97	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	52.80		ug/L		106	59 - 125
1,2-Dibromoethane	50.0	50.28		ug/L		101	73 - 125
1,2-Dichloroethane	50.0	47.19		ug/L		94	72 - 130
1,2-Dichloropropane	50.0	47.74		ug/L		95	74 - 125
1,3,5-Trimethylbenzene	50.0	48.24		ug/L		96	60 - 140
1,3-Butadiene	50.0	47.80		ug/L		96	60 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130579/3

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	49.00		ug/L		98	70 - 130
2-Butanone (MEK)	250	233.1		ug/L		93	60 - 140
2-Hexanone (MBK)	250	227.2		ug/L		91	60 - 140
2-Propanol	500	408.9		ug/L		82	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	40.64		ug/L		81	70 - 130
4-Methyl-2-pentanone	250	227.6		ug/L		91	60 - 140
Acetone	250	225.8		ug/L		90	60 - 140
Acetonitrile	500	408.0		ug/L		82	60 - 140
Acrolein	250	220.7		ug/L		88	60 - 140
Acrylonitrile	500	457.2		ug/L		91	60 - 140
alpha-Chlorotoluene	50.0	50.66		ug/L		101	75 - 125
Benzene	50.0	47.20		ug/L		94	75 - 125
Bromodichloromethane	50.0	47.19		ug/L		94	75 - 125
Bromoform	50.0	49.77		ug/L		100	70 - 130
Bromomethane	50.0	50.86		ug/L		102	60 - 140
Carbon disulfide	50.0	45.99		ug/L		92	60 - 140
Carbon tetrachloride	50.0	45.91		ug/L		92	70 - 130
Chlorobenzene	50.0	48.71		ug/L		97	65 - 135
Chlorodibromomethane	50.0	48.88		ug/L		98	73 - 125
Chloroethane	50.0	43.14		ug/L		86	60 - 140
Chloroform	50.0	47.24		ug/L		94	70 - 121
Chloromethane	50.0	45.41		ug/L		91	60 - 140
Chloroprene	50.0	44.47		ug/L		89	70 - 130
cis-1,2-Dichloroethene	50.0	46.49		ug/L		93	75 - 125
cis-1,3-Dichloropropene	50.0	48.00		ug/L		96	74 - 125
Cumene (isopropylbenzene)	50.0	48.07		ug/L		96	75 - 125
Cyclohexane	50.0	47.24		ug/L		94	70 - 130
Dibromomethane	50.0	50.28		ug/L		101	69 - 127
Dichlorodifluoromethane	50.0	51.28		ug/L		103	50 - 150
Ethyl methacrylate	50.0	47.73		ug/L		95	70 - 130
Ethylbenzene	50.0	47.36		ug/L		95	75 - 125
Hexane	50.0	48.61		ug/L		97	72 - 125
Iodomethane	50.0	52.40		ug/L		105	75 - 125
Isobutanol	1240	1110		ug/L		90	60 - 140
Methacrylonitrile	500	480.0		ug/L		96	70 - 130
Methyl methacrylate	100	96.51		ug/L		97	70 - 130
Methyl tert-butyl ether	50.0	46.62		ug/L		93	65 - 135
Methylene Chloride	50.0	46.54		ug/L		93	71 - 125
Propionitrile	500	471.9		ug/L		94	70 - 130
Propylbenzene	50.0	49.26		ug/L		99	75 - 125
Styrene	50.0	48.32		ug/L		97	75 - 125
Tetrachloroethene	50.0	49.63		ug/L		99	71 - 125
Tetrahydrofuran	100	96.66		ug/L		97	75 - 125
Toluene	50.0	47.68		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	48.28		ug/L		97	75 - 125
trans-1,3-Dichloropropene	50.0	47.43		ug/L		95	66 - 125
trans-1,4-Dichloro-2-butene	50.0	47.25		ug/L		94	70 - 130
Trichloroethene	50.0	50.58		ug/L		101	75 - 135
Trichlorofluoromethane	50.0	52.50		ug/L		105	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130579/3

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	224.0		ug/L		90	60 - 140
Vinyl chloride	50.0	48.22		ug/L		96	60 - 140
Xylenes, Total	100	94.18		ug/L		94	75 - 125
m,p-Xylenes	0.0500	0.04718		mg/L		94	75 - 125
o-Xylene	0.0500	0.04700		mg/L		94	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 860-130579/4

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	45.49		ug/L		91	72 - 125	7	25
1,1,1-Trichloroethane	50.0	42.64		ug/L		85	70 - 130	9	25
1,1,2,2-Tetrachloroethane	50.0	45.34		ug/L		91	74 - 125	8	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.17		ug/L		102	60 - 140	4	25
1,1,2-Trichloroethane	50.0	46.49		ug/L		93	70 - 130	5	25
1,1-Dichloroethane	50.0	43.45		ug/L		87	70 - 130	7	25
1,1-Dichloroethene	50.0	43.24		ug/L		86	50 - 150	9	25
1,2,3-Trichloropropane	50.0	43.02		ug/L		86	75 - 125	9	25
1,2,4-Trimethylbenzene	50.0	43.54		ug/L		87	75 - 125	10	25
1,2-Dibromo-3-Chloropropane	50.0	49.31		ug/L		99	59 - 125	7	25
1,2-Dibromoethane	50.0	47.45		ug/L		95	73 - 125	6	25
1,2-Dichloroethane	50.0	45.40		ug/L		91	72 - 130	4	25
1,2-Dichloropropane	50.0	45.35		ug/L		91	74 - 125	5	25
1,3,5-Trimethylbenzene	50.0	43.63		ug/L		87	60 - 140	10	25
1,3-Butadiene	50.0	42.76		ug/L		86	60 - 150	11	25
2,2,4-Trimethylpentane	50.0	44.88		ug/L		90	70 - 130	9	25
2-Butanone (MEK)	250	217.3		ug/L		87	60 - 140	7	25
2-Hexanone (MBK)	250	209.4		ug/L		84	60 - 140	8	25
2-Propanol	500	394.8		ug/L		79	70 - 120	4	25
3-Chloropropene (Allyl Chloride)	50.0	38.10		ug/L		76	70 - 130	6	25
4-Methyl-2-pentanone	250	213.6		ug/L		85	60 - 140	6	25
Acetone	250	209.7		ug/L		84	60 - 140	7	25
Acetonitrile	500	382.5		ug/L		76	60 - 140	6	25
Acrolein	250	204.6		ug/L		82	60 - 140	8	25
Acrylonitrile	500	433.4		ug/L		87	60 - 140	5	25
alpha-Chlorotoluene	50.0	44.02		ug/L		88	75 - 125	14	25
Benzene	50.0	44.56		ug/L		89	75 - 125	6	25
Bromodichloromethane	50.0	44.73		ug/L		89	75 - 125	5	25
Bromoform	50.0	46.64		ug/L		93	70 - 130	7	25
Bromomethane	50.0	47.97		ug/L		96	60 - 140	6	25
Carbon disulfide	50.0	42.64		ug/L		85	60 - 140	8	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130579/4

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	42.20		ug/L		84	70 - 130	8	25
Chlorobenzene	50.0	45.02		ug/L		90	65 - 135	8	25
Chlorodibromomethane	50.0	45.97		ug/L		92	73 - 125	6	25
Chloroethane	50.0	41.49		ug/L		83	60 - 140	4	25
Chloroform	50.0	44.61		ug/L		89	70 - 121	6	25
Chloromethane	50.0	42.48		ug/L		85	60 - 140	7	25
Chloroprene	50.0	41.37		ug/L		83	70 - 130	7	25
cis-1,2-Dichloroethene	50.0	43.19		ug/L		86	75 - 125	7	25
cis-1,3-Dichloropropene	50.0	45.17		ug/L		90	74 - 125	6	25
Cumene (isopropylbenzene)	50.0	44.11		ug/L		88	75 - 125	9	25
Cyclohexane	50.0	43.11		ug/L		86	70 - 130	9	25
Dibromomethane	50.0	47.92		ug/L		96	69 - 127	5	25
Dichlorodifluoromethane	50.0	45.91		ug/L		92	50 - 150	11	25
Ethyl methacrylate	50.0	44.77		ug/L		90	70 - 130	6	25
Ethylbenzene	50.0	43.84		ug/L		88	75 - 125	8	25
Hexane	50.0	45.41		ug/L		91	72 - 125	7	25
Iodomethane	50.0	49.86		ug/L		100	75 - 125	5	25
Isobutanol	1240	1074		ug/L		87	60 - 140	3	25
Methacrylonitrile	500	451.2		ug/L		90	70 - 130	6	25
Methyl methacrylate	100	90.80		ug/L		91	70 - 130	6	25
Methyl tert-butyl ether	50.0	44.56		ug/L		89	65 - 135	5	25
Methylene Chloride	50.0	45.51		ug/L		91	71 - 125	2	25
Propionitrile	500	441.0		ug/L		88	70 - 130	7	25
Propylbenzene	50.0	43.43		ug/L		87	75 - 125	13	25
Styrene	50.0	44.56		ug/L		89	75 - 125	8	25
Tetrachloroethene	50.0	45.96		ug/L		92	71 - 125	8	25
Tetrahydrofuran	100	85.17		ug/L		85	75 - 125	13	25
Toluene	50.0	43.86		ug/L		88	70 - 130	8	25
trans-1,2-Dichloroethene	50.0	45.26		ug/L		91	75 - 125	6	25
trans-1,3-Dichloropropene	50.0	44.57		ug/L		89	66 - 125	6	25
trans-1,4-Dichloro-2-butene	50.0	42.92		ug/L		86	70 - 130	10	25
Trichloroethene	50.0	47.27		ug/L		95	75 - 135	7	25
Trichlorofluoromethane	50.0	46.02		ug/L		92	60 - 140	13	25
Vinyl acetate	250	191.7		ug/L		77	60 - 140	16	25
Vinyl chloride	50.0	44.16		ug/L		88	60 - 140	9	25
Xylenes, Total	100	86.66		ug/L		87	75 - 125	8	25
m,p-Xylenes	0.0500	0.04329		mg/L		87	75 - 125	9	25
o-Xylene	0.0500	0.04337		mg/L		87	75 - 125	8	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	97		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61082-E-1 MS

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	48.58		ug/L		97	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	45.52		ug/L		91	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	49.83		ug/L		100	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	52.28		ug/L		105	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	48.62		ug/L		97	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	46.23		ug/L		92	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	45.66		ug/L		91	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	45.32		ug/L		91	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	48.02		ug/L		96	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	52.95		ug/L		106	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	49.57		ug/L		99	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	46.44		ug/L		93	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	46.74		ug/L		93	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	47.79		ug/L		96	70 - 125
1,3-Butadiene	<0.568	U	50.0	48.14		ug/L		96	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	46.68		ug/L		93	70 - 130
2-Butanone (MEK)	<8.28	U	250	224.7		ug/L		90	60 - 140
2-Hexanone (MBK)	<7.45	U	250	223.1		ug/L		89	60 - 140
2-Propanol	<5.23	U	500	414.8		ug/L		83	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	39.37		ug/L		79	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	222.2		ug/L		89	60 - 140
Acetone	<3.07	U	250	204.7		ug/L		82	60 - 140
Acetonitrile	<14.6	U	500	395.2		ug/L		79	60 - 140
Acrolein	<11.1	U	250	219.4		ug/L		88	50 - 150
Acrylonitrile	<14.3	U	500	449.3		ug/L		90	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	51.29		ug/L		103	70 - 130
Benzene	<0.460	U	50.0	46.75		ug/L		94	66 - 142
Bromodichloromethane	<0.552	U	50.0	47.04		ug/L		94	75 - 125
Bromoform	<0.633	U	50.0	49.08		ug/L		98	75 - 125
Bromomethane	<1.42	U	50.0	50.38		ug/L		101	60 - 140
Carbon disulfide	<1.65	U	50.0	44.26		ug/L		89	60 - 140
Carbon tetrachloride	<0.896	U	50.0	43.77		ug/L		88	62 - 125
Chlorobenzene	<0.455	U	50.0	48.23		ug/L		96	60 - 133
Chlorodibromomethane	<0.547	U	50.0	48.28		ug/L		97	73 - 125
Chloroethane	<1.98	U	50.0	43.04		ug/L		86	60 - 140
Chloroform	<0.464	U	50.0	46.53		ug/L		93	70 - 130
Chloromethane	<2.04	U	50.0	43.59		ug/L		87	60 - 140
Chloroprene	<0.598	U	50.0	43.28		ug/L		87	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	45.28		ug/L		91	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	47.48		ug/L		95	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	47.01		ug/L		94	75 - 125
Cyclohexane	<1.29	U	50.0	45.09		ug/L		90	70 - 130
Dibromomethane	<0.357	U	50.0	49.20		ug/L		98	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	47.58		ug/L		95	70 - 130
Ethyl methacrylate	<1.12	U	50.0	47.01		ug/L		94	70 - 130
Ethylbenzene	<0.385	U	50.0	47.14		ug/L		94	75 - 125
Hexane	<0.517	U	50.0	46.93		ug/L		94	72 - 125
Iodomethane	<6.52	U	50.0	53.43		ug/L		107	75 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61082-E-1 MS

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Isobutanol	<17.1	U	1240	1136		ug/L		92	60 - 140
Methacrylonitrile	<2.72	U	500	468.3		ug/L		94	70 - 130
Methyl methacrylate	<2.25	U	100	95.05		ug/L		95	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	45.66		ug/L		91	65 - 135
Methylene Chloride	<1.73	U	50.0	44.89		ug/L		90	75 - 125
Propionitrile	<3.34	U	500	462.6		ug/L		93	70 - 130
Propylbenzene	<0.429	U	50.0	47.74		ug/L		95	75 - 125
Styrene	<0.619	U	50.0	48.02		ug/L		96	75 - 125
Tetrachloroethene	<0.655	U	50.0	49.02		ug/L		98	71 - 125
Tetrahydrofuran	<1.83	U	100	89.22		ug/L		89	75 - 125
Toluene	<0.475	U	50.0	47.15		ug/L		94	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	46.40		ug/L		93	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	46.97		ug/L		94	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	41.43		ug/L		83	70 - 130
Trichloroethene	<0.791	U	50.0	48.90		ug/L		98	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	51.52		ug/L		103	60 - 140
Vinyl acetate	<2.14	U	250	218.1		ug/L		87	60 - 140
Vinyl chloride	<0.428	U	50.0	47.35		ug/L		95	60 - 140
Xylenes, Total	<1.24	U	100	93.52		ug/L		94	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.04684		mg/L		94	75 - 125
o-Xylene	<0.000502	U	0.0500	0.04668		mg/L		93	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: MB 860-130814/9

Matrix: Water

Analysis Batch: 130814

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/13/23 21:45	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/13/23 21:45	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/13/23 21:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/13/23 21:45	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/13/23 21:45	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/13/23 21:45	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/13/23 21:45	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/13/23 21:45	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/13/23 21:45	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/13/23 21:45	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/13/23 21:45	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/13/23 21:45	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/13/23 21:45	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/13/23 21:45	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/13/23 21:45	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130814/9

Matrix: Water

Analysis Batch: 130814

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/13/23 21:45	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/13/23 21:45	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/13/23 21:45	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/13/23 21:45	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/13/23 21:45	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/13/23 21:45	1
Acetone	<3.07	U	100	3.07	ug/L			11/13/23 21:45	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/13/23 21:45	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/13/23 21:45	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/13/23 21:45	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/13/23 21:45	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/13/23 21:45	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/13/23 21:45	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/13/23 21:45	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/13/23 21:45	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/13/23 21:45	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/13/23 21:45	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/13/23 21:45	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/13/23 21:45	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/13/23 21:45	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/13/23 21:45	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/13/23 21:45	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/13/23 21:45	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/13/23 21:45	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/13/23 21:45	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/13/23 21:45	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/13/23 21:45	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/13/23 21:45	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/13/23 21:45	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/13/23 21:45	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/13/23 21:45	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/13/23 21:45	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/13/23 21:45	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/13/23 21:45	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/13/23 21:45	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/13/23 21:45	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/13/23 21:45	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/13/23 21:45	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/13/23 21:45	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/13/23 21:45	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/13/23 21:45	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/13/23 21:45	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/13/23 21:45	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/13/23 21:45	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/13/23 21:45	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/13/23 21:45	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/13/23 21:45	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/13/23 21:45	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/13/23 21:45	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130814/9

Matrix: Water

Analysis Batch: 130814

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/13/23 21:45	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/13/23 21:45	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/13/23 21:45	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/13/23 21:45	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/13/23 21:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		11/13/23 21:45	1
4-Bromofluorobenzene (Surr)	113		74 - 124		11/13/23 21:45	1
Dibromofluoromethane (Surr)	108		75 - 131		11/13/23 21:45	1
Toluene-d8 (Surr)	99		80 - 120		11/13/23 21:45	1

Lab Sample ID: LCS 860-130814/3

Matrix: Water

Analysis Batch: 130814

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	45.76		ug/L		92	72 - 125
1,1,1-Trichloroethane	50.0	51.73		ug/L		103	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.99		ug/L		100	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.45		ug/L		89	60 - 140
1,1,2-Trichloroethane	50.0	47.93		ug/L		96	70 - 130
1,1-Dichloroethane	50.0	52.88		ug/L		106	70 - 130
1,1-Dichloroethene	50.0	47.71		ug/L		95	50 - 150
1,2,3-Trichloropropane	50.0	51.27		ug/L		103	75 - 125
1,2,4-Trimethylbenzene	50.0	49.45		ug/L		99	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	42.72		ug/L		85	59 - 125
1,2-Dibromoethane	50.0	47.28		ug/L		95	73 - 125
1,2-Dichloroethane	50.0	50.31		ug/L		101	72 - 130
1,2-Dichloropropane	50.0	50.49		ug/L		101	74 - 125
1,3,5-Trimethylbenzene	50.0	49.87		ug/L		100	60 - 140
1,3-Butadiene	50.0	38.14		ug/L		76	60 - 150
2,2,4-Trimethylpentane	50.0	56.25		ug/L		113	70 - 130
2-Butanone (MEK)	250	264.4		ug/L		106	60 - 140
2-Hexanone (MBK)	250	244.9		ug/L		98	60 - 140
2-Propanol	500	545.6		ug/L		109	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	42.86		ug/L		86	70 - 130
4-Methyl-2-pentanone	250	250.4		ug/L		100	60 - 140
Acetone	250	265.7		ug/L		106	60 - 140
Acetonitrile	500	643.3		ug/L		129	60 - 140
Acrolein	250	202.1		ug/L		81	60 - 140
Acrylonitrile	500	565.0		ug/L		113	60 - 140
alpha-Chlorotoluene	50.0	43.51		ug/L		87	75 - 125
Benzene	50.0	48.37		ug/L		97	75 - 125
Bromodichloromethane	50.0	49.30		ug/L		99	75 - 125
Bromoform	50.0	39.97		ug/L		80	70 - 130
Bromomethane	50.0	32.91		ug/L		66	60 - 140
Carbon disulfide	50.0	45.31		ug/L		91	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130814/3

Matrix: Water

Analysis Batch: 130814

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	50.0	48.80		ug/L		98	70 - 130
Chlorobenzene	50.0	44.71		ug/L		89	65 - 135
Chlorodibromomethane	50.0	47.08		ug/L		94	73 - 125
Chloroethane	50.0	40.31		ug/L		81	60 - 140
Chloroform	50.0	50.86		ug/L		102	70 - 121
Chloromethane	50.0	38.46		ug/L		77	60 - 140
Chloroprene	50.0	53.63		ug/L		107	70 - 130
cis-1,2-Dichloroethene	50.0	50.57		ug/L		101	75 - 125
cis-1,3-Dichloropropene	50.0	50.49		ug/L		101	74 - 125
Cumene (isopropylbenzene)	50.0	46.22		ug/L		92	75 - 125
Cyclohexane	50.0	47.95		ug/L		96	70 - 130
Dibromomethane	50.0	50.86		ug/L		102	69 - 127
Dichlorodifluoromethane	50.0	27.41		ug/L		55	50 - 150
Ethyl methacrylate	50.0	51.37		ug/L		103	70 - 130
Ethylbenzene	50.0	46.50		ug/L		93	75 - 125
Hexane	50.0	47.50		ug/L		95	72 - 125
Iodomethane	50.0	46.88		ug/L		94	75 - 125
Isobutanol	1240	1520		ug/L		123	60 - 140
Methacrylonitrile	500	550.3		ug/L		110	70 - 130
Methyl methacrylate	100	112.3		ug/L		112	70 - 130
Methyl tert-butyl ether	50.0	50.57		ug/L		101	65 - 135
Methylene Chloride	50.0	48.49		ug/L		97	71 - 125
Propionitrile	500	598.7		ug/L		120	70 - 130
Propylbenzene	50.0	49.57		ug/L		99	75 - 125
Styrene	50.0	45.52		ug/L		91	75 - 125
Tetrachloroethene	50.0	45.05		ug/L		90	71 - 125
Tetrahydrofuran	100	150.7	*+	ug/L		151	75 - 125
Toluene	50.0	45.49		ug/L		91	70 - 130
trans-1,2-Dichloroethene	50.0	46.24		ug/L		92	75 - 125
trans-1,3-Dichloropropene	50.0	49.23		ug/L		98	66 - 125
trans-1,4-Dichloro-2-butene	50.0	53.66		ug/L		107	70 - 130
Trichloroethene	50.0	46.36		ug/L		93	75 - 135
Trichlorofluoromethane	50.0	49.23		ug/L		98	60 - 140
Vinyl acetate	250	295.2		ug/L		118	60 - 140
Vinyl chloride	50.0	37.59		ug/L		75	60 - 140
Xylenes, Total	100	92.29		ug/L		92	75 - 125
m,p-Xylenes	0.0500	0.04608		mg/L		92	75 - 125
o-Xylene	0.0500	0.04621		mg/L		92	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		63 - 144
4-Bromofluorobenzene (Surr)	110		74 - 124
Dibromofluoromethane (Surr)	108		75 - 131
Toluene-d8 (Surr)	100		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130814/4

Matrix: Water

Analysis Batch: 130814

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	44.28		ug/L		89	72 - 125	3	25
1,1,1-Trichloroethane	50.0	48.82		ug/L		98	70 - 130	6	25
1,1,2,2-Tetrachloroethane	50.0	50.08		ug/L		100	74 - 125	0	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.81		ug/L		88	60 - 140	1	25
1,1,2-Trichloroethane	50.0	46.66		ug/L		93	70 - 130	3	25
1,1-Dichloroethane	50.0	50.99		ug/L		102	70 - 130	4	25
1,1-Dichloroethene	50.0	43.01		ug/L		86	50 - 150	10	25
1,2,3-Trichloropropane	50.0	51.63		ug/L		103	75 - 125	1	25
1,2,4-Trimethylbenzene	50.0	50.71		ug/L		101	75 - 125	3	25
1,2-Dibromo-3-Chloropropane	50.0	41.63		ug/L		83	59 - 125	3	25
1,2-Dibromoethane	50.0	46.54		ug/L		93	73 - 125	2	25
1,2-Dichloroethane	50.0	48.79		ug/L		98	72 - 130	3	25
1,2-Dichloropropane	50.0	48.23		ug/L		96	74 - 125	5	25
1,3,5-Trimethylbenzene	50.0	50.32		ug/L		101	60 - 140	1	25
1,3-Butadiene	50.0	34.01		ug/L		68	60 - 150	11	25
2,2,4-Trimethylpentane	50.0	57.02		ug/L		114	70 - 130	1	25
2-Butanone (MEK)	250	243.9		ug/L		98	60 - 140	8	25
2-Hexanone (MBK)	250	238.6		ug/L		95	60 - 140	3	25
2-Propanol	500	529.0		ug/L		106	70 - 120	3	25
3-Chloropropene (Allyl Chloride)	50.0	50.73		ug/L		101	70 - 130	17	25
4-Methyl-2-pentanone	250	239.3		ug/L		96	60 - 140	5	25
Acetone	250	244.1		ug/L		98	60 - 140	8	25
Acetonitrile	500	596.0		ug/L		119	60 - 140	8	25
Acrolein	250	185.6		ug/L		74	60 - 140	9	25
Acrylonitrile	500	535.4		ug/L		107	60 - 140	5	25
alpha-Chlorotoluene	50.0	42.89		ug/L		86	75 - 125	1	25
Benzene	50.0	46.70		ug/L		93	75 - 125	4	25
Bromodichloromethane	50.0	48.17		ug/L		96	75 - 125	2	25
Bromoform	50.0	39.12		ug/L		78	70 - 130	2	25
Bromomethane	50.0	30.75		ug/L		62	60 - 140	7	25
Carbon disulfide	50.0	43.66		ug/L		87	60 - 140	4	25
Carbon tetrachloride	50.0	50.20		ug/L		100	70 - 130	3	25
Chlorobenzene	50.0	43.37		ug/L		87	65 - 135	3	25
Chlorodibromomethane	50.0	46.47		ug/L		93	73 - 125	1	25
Chloroethane	50.0	39.58		ug/L		79	60 - 140	2	25
Chloroform	50.0	48.61		ug/L		97	70 - 121	5	25
Chloromethane	50.0	37.34		ug/L		75	60 - 140	3	25
Chloroprene	50.0	50.22		ug/L		100	70 - 130	7	25
cis-1,2-Dichloroethene	50.0	48.97		ug/L		98	75 - 125	3	25
cis-1,3-Dichloropropene	50.0	49.09		ug/L		98	74 - 125	3	25
Cumene (isopropylbenzene)	50.0	45.57		ug/L		91	75 - 125	1	25
Cyclohexane	50.0	45.94		ug/L		92	70 - 130	4	25
Dibromomethane	50.0	48.62		ug/L		97	69 - 127	4	25
Dichlorodifluoromethane	50.0	26.67		ug/L		53	50 - 150	3	25
Ethyl methacrylate	50.0	51.06		ug/L		102	70 - 130	1	25
Ethylbenzene	50.0	45.50		ug/L		91	75 - 125	2	25
Hexane	50.0	47.15		ug/L		94	72 - 125	1	25
Iodomethane	50.0	46.90		ug/L		94	75 - 125	0	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130814/4

Matrix: Water

Analysis Batch: 130814

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isobutanol	1240	1512		ug/L		122	60 - 140	0	25
Methacrylonitrile	500	522.3		ug/L		104	70 - 130	5	25
Methyl methacrylate	100	108.0		ug/L		108	70 - 130	4	25
Methyl tert-butyl ether	50.0	51.39		ug/L		103	65 - 135	2	25
Methylene Chloride	50.0	46.53		ug/L		93	71 - 125	4	25
Propionitrile	500	565.8		ug/L		113	70 - 130	6	25
Propylbenzene	50.0	50.33		ug/L		101	75 - 125	2	25
Styrene	50.0	44.61		ug/L		89	75 - 125	2	25
Tetrachloroethene	50.0	43.52		ug/L		87	71 - 125	3	25
Tetrahydrofuran	100	143.0	*+	ug/L		143	75 - 125	5	25
Toluene	50.0	45.10		ug/L		90	70 - 130	1	25
trans-1,2-Dichloroethene	50.0	47.21		ug/L		94	75 - 125	2	25
trans-1,3-Dichloropropene	50.0	48.84		ug/L		98	66 - 125	1	25
trans-1,4-Dichloro-2-butene	50.0	54.18		ug/L		108	70 - 130	1	25
Trichloroethene	50.0	42.92		ug/L		86	75 - 135	8	25
Trichlorofluoromethane	50.0	46.49		ug/L		93	60 - 140	6	25
Vinyl acetate	250	281.8		ug/L		113	60 - 140	5	25
Vinyl chloride	50.0	36.79		ug/L		74	60 - 140	2	25
Xylenes, Total	100	91.07		ug/L		91	75 - 125	1	25
m,p-Xylenes	0.0500	0.04519		mg/L		90	75 - 125	2	25
o-Xylene	0.0500	0.04588		mg/L		92	75 - 125	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		63 - 144
4-Bromofluorobenzene (Surr)	111		74 - 124
Dibromofluoromethane (Surr)	107		75 - 131
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: 860-61132-I-2 MS

Matrix: Water

Analysis Batch: 130814

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	48.86		ug/L		98	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	51.25		ug/L		103	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	53.81		ug/L		108	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	43.38		ug/L		87	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	51.61		ug/L		103	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	53.39		ug/L		107	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	48.24		ug/L		96	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	54.52		ug/L		109	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	53.96		ug/L		108	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	46.67		ug/L		93	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	50.01		ug/L		100	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	51.06		ug/L		102	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	51.02		ug/L		102	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	53.88		ug/L		108	70 - 125
1,3-Butadiene	<0.568	U	50.0	40.78		ug/L		82	70 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61132-I-2 MS

Matrix: Water

Analysis Batch: 130814

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	<0.500	U	50.0	53.44		ug/L		107	70 - 130
2-Butanone (MEK)	<8.28	U	250	282.0		ug/L		113	60 - 140
2-Hexanone (MBK)	<7.45	U	250	271.8		ug/L		109	60 - 140
2-Propanol	<5.23	U	500	585.5		ug/L		117	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	48.85		ug/L		98	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	267.4		ug/L		107	60 - 140
Acetone	<3.07	U	250	271.6		ug/L		109	60 - 140
Acetonitrile	<14.6	U	500	615.8		ug/L		123	60 - 140
Acrolein	<11.1	U	250	212.7		ug/L		85	50 - 150
Acrylonitrile	<14.3	U	500	548.7		ug/L		110	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	43.65		ug/L		87	70 - 130
Benzene	<0.460	U	50.0	49.33		ug/L		99	66 - 142
Bromodichloromethane	<0.552	U	50.0	50.70		ug/L		101	75 - 125
Bromoform	<0.633	U	50.0	42.66		ug/L		85	75 - 125
Bromomethane	<1.42	U	50.0	33.90		ug/L		68	60 - 140
Carbon disulfide	<1.65	U	50.0	44.38		ug/L		89	60 - 140
Carbon tetrachloride	<0.896	U	50.0	47.43		ug/L		95	62 - 125
Chlorobenzene	<0.455	U	50.0	48.72		ug/L		97	60 - 133
Chlorodibromomethane	<0.547	U	50.0	50.04		ug/L		100	73 - 125
Chloroethane	<1.98	U	50.0	57.49		ug/L		115	60 - 140
Chloroform	<0.464	U	50.0	51.59		ug/L		103	70 - 130
Chloromethane	<2.04	U	50.0	43.28		ug/L		87	60 - 140
Chloroprene	<0.598	U	50.0	53.51		ug/L		107	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	51.75		ug/L		103	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	51.98		ug/L		104	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	49.91		ug/L		100	75 - 125
Cyclohexane	<1.29	U	50.0	46.10		ug/L		92	70 - 130
Dibromomethane	<0.357	U	50.0	51.05		ug/L		102	69 - 127
Dichlorodifluoromethane	<0.785	U F1	50.0	32.75	F1	ug/L		66	70 - 130
Ethyl methacrylate	<1.12	U	50.0	55.04		ug/L		110	70 - 130
Ethylbenzene	<0.385	U	50.0	50.32		ug/L		101	75 - 125
Hexane	<0.517	U	50.0	46.92		ug/L		94	72 - 125
Iodomethane	<6.52	U	50.0	49.95		ug/L		100	75 - 125
Isobutanol	<17.1	U	1240	1556		ug/L		125	60 - 140
Methacrylonitrile	<2.72	U	500	531.6		ug/L		106	70 - 130
Methyl methacrylate	<2.25	U	100	108.8		ug/L		109	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	55.48		ug/L		111	65 - 135
Methylene Chloride	<1.73	U	50.0	47.75		ug/L		96	75 - 125
Propionitrile	<3.34	U	500	570.6		ug/L		114	70 - 130
Propylbenzene	<0.429	U	50.0	53.62		ug/L		107	75 - 125
Styrene	<0.619	U	50.0	49.88		ug/L		100	75 - 125
Tetrachloroethene	<0.655	U	50.0	47.68		ug/L		95	71 - 125
Tetrahydrofuran	<1.83	U *+ F1	100	147.4	F1	ug/L		147	75 - 125
Toluene	<0.475	U	50.0	49.15		ug/L		98	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	49.58		ug/L		99	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	52.44		ug/L		105	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	55.27		ug/L		111	70 - 130
Trichloroethene	<0.791	U	50.0	47.79		ug/L		96	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	52.77		ug/L		106	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61132-I-2 MS

Matrix: Water

Analysis Batch: 130814

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	<2.14	U	250	289.3		ug/L		116	60 - 140
Vinyl chloride	<0.428	U	50.0	43.78		ug/L		88	60 - 140
Xylenes, Total	<1.24	U	100	100.2		ug/L		100	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.04977		mg/L		100	75 - 125
o-Xylene	<0.000502	U	0.0500	0.05045		mg/L		101	75 - 125
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
1,2-Dichloroethane-d4 (Surr)	103		63 - 144						
4-Bromofluorobenzene (Surr)	111		74 - 124						
Dibromofluoromethane (Surr)	105		75 - 131						
Toluene-d8 (Surr)	101		80 - 120						

Lab Sample ID: MB 860-130880/9

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/14/23 11:28	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/14/23 11:28	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/14/23 11:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/14/23 11:28	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/14/23 11:28	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/14/23 11:28	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/14/23 11:28	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/14/23 11:28	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/14/23 11:28	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/14/23 11:28	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/14/23 11:28	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/14/23 11:28	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/14/23 11:28	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/14/23 11:28	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/14/23 11:28	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/14/23 11:28	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/14/23 11:28	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/14/23 11:28	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/14/23 11:28	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/14/23 11:28	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/14/23 11:28	1
Acetone	<3.07	U	100	3.07	ug/L			11/14/23 11:28	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/14/23 11:28	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/14/23 11:28	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/14/23 11:28	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/14/23 11:28	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/14/23 11:28	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/14/23 11:28	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/14/23 11:28	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/14/23 11:28	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/14/23 11:28	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130880/9

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/14/23 11:28	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/14/23 11:28	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/14/23 11:28	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/14/23 11:28	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/14/23 11:28	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/14/23 11:28	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/14/23 11:28	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/14/23 11:28	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/14/23 11:28	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/14/23 11:28	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/14/23 11:28	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/14/23 11:28	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/14/23 11:28	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/14/23 11:28	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/14/23 11:28	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/14/23 11:28	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/14/23 11:28	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/14/23 11:28	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/14/23 11:28	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/14/23 11:28	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/14/23 11:28	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/14/23 11:28	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/14/23 11:28	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/14/23 11:28	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/14/23 11:28	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/14/23 11:28	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/14/23 11:28	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/14/23 11:28	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/14/23 11:28	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/14/23 11:28	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/14/23 11:28	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/14/23 11:28	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/14/23 11:28	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/14/23 11:28	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/14/23 11:28	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/14/23 11:28	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/14/23 11:28	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/14/23 11:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		11/14/23 11:28	1
4-Bromofluorobenzene (Surr)	100		74 - 124		11/14/23 11:28	1
Dibromofluoromethane (Surr)	96		75 - 131		11/14/23 11:28	1
Toluene-d8 (Surr)	98		80 - 120		11/14/23 11:28	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130880/3

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	46.27		ug/L		93	72 - 125
1,1,1-Trichloroethane	50.0	46.71		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.47		ug/L		95	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.32		ug/L		93	60 - 140
1,1,2-Trichloroethane	50.0	46.52		ug/L		93	70 - 130
1,1-Dichloroethane	50.0	42.63		ug/L		85	70 - 130
1,1-Dichloroethene	50.0	44.83		ug/L		90	50 - 150
1,2,3-Trichloropropane	50.0	49.22		ug/L		98	75 - 125
1,2,4-Trimethylbenzene	50.0	49.77		ug/L		100	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	44.48		ug/L		89	59 - 125
1,2-Dibromoethane	50.0	47.58		ug/L		95	73 - 125
1,2-Dichloroethane	50.0	46.18		ug/L		92	72 - 130
1,2-Dichloropropane	50.0	47.50		ug/L		95	74 - 125
1,3,5-Trimethylbenzene	50.0	47.80		ug/L		96	60 - 140
1,3-Butadiene	50.0	47.21		ug/L		94	60 - 150
2,2,4-Trimethylpentane	50.0	50.22		ug/L		100	70 - 130
2-Butanone (MEK)	250	233.5		ug/L		93	60 - 140
2-Hexanone (MBK)	250	250.3		ug/L		100	60 - 140
2-Propanol	500	475.2		ug/L		95	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	43.56		ug/L		87	70 - 130
4-Methyl-2-pentanone	250	243.5		ug/L		97	60 - 140
Acetone	250	229.4		ug/L		92	60 - 140
Acetonitrile	500	419.0		ug/L		84	60 - 140
Acrolein	250	221.2		ug/L		88	60 - 140
Acrylonitrile	500	436.3		ug/L		87	60 - 140
alpha-Chlorotoluene	50.0	49.94		ug/L		100	75 - 125
Benzene	50.0	46.50		ug/L		93	75 - 125
Bromodichloromethane	50.0	45.23		ug/L		90	75 - 125
Bromoform	50.0	44.68		ug/L		89	70 - 130
Bromomethane	50.0	44.18		ug/L		88	60 - 140
Carbon disulfide	50.0	41.96		ug/L		84	60 - 140
Carbon tetrachloride	50.0	46.06		ug/L		92	70 - 130
Chlorobenzene	50.0	46.30		ug/L		93	65 - 135
Chlorodibromomethane	50.0	44.64		ug/L		89	73 - 125
Chloroethane	50.0	43.94		ug/L		88	60 - 140
Chloroform	50.0	46.56		ug/L		93	70 - 121
Chloromethane	50.0	42.00		ug/L		84	60 - 140
Chloroprene	50.0	46.34		ug/L		93	70 - 130
cis-1,2-Dichloroethene	50.0	44.30		ug/L		89	75 - 125
cis-1,3-Dichloropropene	50.0	48.71		ug/L		97	74 - 125
Cumene (isopropylbenzene)	50.0	49.33		ug/L		99	75 - 125
Cyclohexane	50.0	44.25		ug/L		88	70 - 130
Dibromomethane	50.0	47.27		ug/L		95	69 - 127
Dichlorodifluoromethane	50.0	40.22		ug/L		80	50 - 150
Ethyl methacrylate	50.0	50.52		ug/L		101	70 - 130
Ethylbenzene	50.0	48.01		ug/L		96	75 - 125
Hexane	50.0	46.93		ug/L		94	72 - 125
Iodomethane	50.0	43.10		ug/L		86	75 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130880/3

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isobutanol	1240	1233		ug/L		99	60 - 140
Methacrylonitrile	500	472.7		ug/L		95	70 - 130
Methyl methacrylate	100	97.49		ug/L		97	70 - 130
Methyl tert-butyl ether	50.0	44.47		ug/L		89	65 - 135
Methylene Chloride	50.0	40.37		ug/L		81	71 - 125
Propionitrile	500	476.8		ug/L		95	70 - 130
Propylbenzene	50.0	48.67		ug/L		97	75 - 125
Styrene	50.0	50.03		ug/L		100	75 - 125
Tetrachloroethene	50.0	47.87		ug/L		96	71 - 125
Tetrahydrofuran	100	95.11		ug/L		95	75 - 125
Toluene	50.0	46.05		ug/L		92	70 - 130
trans-1,2-Dichloroethene	50.0	44.83		ug/L		90	75 - 125
trans-1,3-Dichloropropene	50.0	48.63		ug/L		97	66 - 125
trans-1,4-Dichloro-2-butene	50.0	47.20		ug/L		94	70 - 130
Trichloroethene	50.0	42.02		ug/L		84	75 - 135
Trichlorofluoromethane	50.0	43.01		ug/L		86	60 - 140
Vinyl acetate	250	227.3		ug/L		91	60 - 140
Vinyl chloride	50.0	43.71		ug/L		87	60 - 140
Xylenes, Total	100	98.73		ug/L		99	75 - 125
m,p-Xylenes	0.0500	0.04986		mg/L		100	75 - 125
o-Xylene	0.0500	0.04887		mg/L		98	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 860-130880/4

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	46.12		ug/L		92	72 - 125	0	25
1,1,1-Trichloroethane	50.0	47.42		ug/L		95	70 - 130	2	25
1,1,2,2-Tetrachloroethane	50.0	46.45		ug/L		93	74 - 125	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.96		ug/L		100	60 - 140	8	25
1,1,2-Trichloroethane	50.0	46.66		ug/L		93	70 - 130	0	25
1,1-Dichloroethane	50.0	45.87		ug/L		92	70 - 130	7	25
1,1-Dichloroethene	50.0	46.53		ug/L		93	50 - 150	4	25
1,2,3-Trichloropropane	50.0	48.12		ug/L		96	75 - 125	2	25
1,2,4-Trimethylbenzene	50.0	50.46		ug/L		101	75 - 125	1	25
1,2-Dibromo-3-Chloropropane	50.0	43.55		ug/L		87	59 - 125	2	25
1,2-Dibromoethane	50.0	46.94		ug/L		94	73 - 125	1	25
1,2-Dichloroethane	50.0	45.30		ug/L		91	72 - 130	2	25
1,2-Dichloropropane	50.0	47.01		ug/L		94	74 - 125	1	25
1,3,5-Trimethylbenzene	50.0	49.54		ug/L		99	60 - 140	4	25
1,3-Butadiene	50.0	49.71		ug/L		99	60 - 150	5	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130880/4

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,2,4-Trimethylpentane	50.0	54.70		ug/L		109	70 - 130	9	25
2-Butanone (MEK)	250	236.4		ug/L		95	60 - 140	1	25
2-Hexanone (MBK)	250	245.8		ug/L		98	60 - 140	2	25
2-Propanol	500	473.8		ug/L		95	70 - 120	0	25
3-Chloropropene (Allyl Chloride)	50.0	43.00		ug/L		86	70 - 130	1	25
4-Methyl-2-pentanone	250	238.1		ug/L		95	60 - 140	2	25
Acetone	250	224.7		ug/L		90	60 - 140	2	25
Acetonitrile	500	426.5		ug/L		85	60 - 140	2	25
Acrolein	250	218.6		ug/L		87	60 - 140	1	25
Acrylonitrile	500	444.5		ug/L		89	60 - 140	2	25
alpha-Chlorotoluene	50.0	48.70		ug/L		97	75 - 125	3	25
Benzene	50.0	46.34		ug/L		93	75 - 125	0	25
Bromodichloromethane	50.0	45.00		ug/L		90	75 - 125	1	25
Bromoform	50.0	44.93		ug/L		90	70 - 130	1	25
Bromomethane	50.0	44.98		ug/L		90	60 - 140	2	25
Carbon disulfide	50.0	44.38		ug/L		89	60 - 140	6	25
Carbon tetrachloride	50.0	47.44		ug/L		95	70 - 130	3	25
Chlorobenzene	50.0	47.65		ug/L		95	65 - 135	3	25
Chlorodibromomethane	50.0	44.73		ug/L		89	73 - 125	0	25
Chloroethane	50.0	44.69		ug/L		89	60 - 140	2	25
Chloroform	50.0	46.60		ug/L		93	70 - 121	0	25
Chloromethane	50.0	43.50		ug/L		87	60 - 140	4	25
Chloroprene	50.0	48.48		ug/L		97	70 - 130	4	25
cis-1,2-Dichloroethene	50.0	44.81		ug/L		90	75 - 125	1	25
cis-1,3-Dichloropropene	50.0	48.43		ug/L		97	74 - 125	1	25
Cumene (isopropylbenzene)	50.0	51.11		ug/L		102	75 - 125	4	25
Cyclohexane	50.0	46.40		ug/L		93	70 - 130	5	25
Dibromomethane	50.0	46.53		ug/L		93	69 - 127	2	25
Dichlorodifluoromethane	50.0	42.59		ug/L		85	50 - 150	6	25
Ethyl methacrylate	50.0	50.89		ug/L		102	70 - 130	1	25
Ethylbenzene	50.0	49.02		ug/L		98	75 - 125	2	25
Hexane	50.0	52.40		ug/L		105	72 - 125	11	25
Iodomethane	50.0	44.27		ug/L		89	75 - 125	3	25
Isobutanol	1240	1206		ug/L		97	60 - 140	2	25
Methacrylonitrile	500	471.4		ug/L		94	70 - 130	0	25
Methyl methacrylate	100	96.80		ug/L		97	70 - 130	1	25
Methyl tert-butyl ether	50.0	44.33		ug/L		89	65 - 135	0	25
Methylene Chloride	50.0	41.12		ug/L		82	71 - 125	2	25
Propionitrile	500	473.6		ug/L		95	70 - 130	1	25
Propylbenzene	50.0	50.67		ug/L		101	75 - 125	4	25
Styrene	50.0	50.71		ug/L		101	75 - 125	1	25
Tetrachloroethene	50.0	49.46		ug/L		99	71 - 125	3	25
Tetrahydrofuran	100	95.75		ug/L		96	75 - 125	1	25
Toluene	50.0	46.83		ug/L		94	70 - 130	2	25
trans-1,2-Dichloroethene	50.0	47.23		ug/L		94	75 - 125	5	25
trans-1,3-Dichloropropene	50.0	48.35		ug/L		97	66 - 125	1	25
trans-1,4-Dichloro-2-butene	50.0	46.13		ug/L		92	70 - 130	2	25
Trichloroethene	50.0	42.25		ug/L		85	75 - 135	1	25
Trichlorofluoromethane	50.0	47.05		ug/L		94	60 - 140	9	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130880/4

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl acetate	250	229.5		ug/L		92	60 - 140	1	25
Vinyl chloride	50.0	45.33		ug/L		91	60 - 140	4	25
Xylenes, Total	100	100.1		ug/L		100	75 - 125	1	25
m,p-Xylenes	0.0500	0.05039		mg/L		101	75 - 125	1	25
o-Xylene	0.0500	0.04969		mg/L		99	75 - 125	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 860-61260-H-2 MS

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	46.62		ug/L		93	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	45.76		ug/L		92	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	46.85		ug/L		94	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	41.97		ug/L		84	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	46.39		ug/L		93	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	42.84		ug/L		86	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	44.43		ug/L		89	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	49.35		ug/L		99	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	50.32		ug/L		101	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	43.90		ug/L		88	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	47.21		ug/L		94	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	46.13		ug/L		92	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	46.75		ug/L		94	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	49.39		ug/L		99	70 - 125
1,3-Butadiene	<0.568	U	50.0	42.28		ug/L		85	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	50.06		ug/L		100	70 - 130
2-Butanone (MEK)	<8.28	U	250	230.1		ug/L		92	60 - 140
2-Hexanone (MBK)	<7.45	U	250	244.9		ug/L		98	60 - 140
2-Propanol	<5.23	U	500	447.6		ug/L		90	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	46.81		ug/L		94	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	236.1		ug/L		94	60 - 140
Acetone	<3.07	U	250	216.3		ug/L		87	60 - 140
Acetonitrile	<14.6	U	500	406.8		ug/L		81	60 - 140
Acrolein	<11.1	U	250	210.2		ug/L		84	50 - 150
Acrylonitrile	<14.3	U	500	427.0		ug/L		85	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	50.21		ug/L		100	70 - 130
Benzene	<0.460	U	50.0	45.81		ug/L		92	66 - 142
Bromodichloromethane	<0.552	U	50.0	44.99		ug/L		90	75 - 125
Bromoform	<0.633	U	50.0	44.01		ug/L		88	75 - 125
Bromomethane	<1.42	U	50.0	40.03		ug/L		80	60 - 140
Carbon disulfide	<1.65	U	50.0	40.81		ug/L		82	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61260-H-2 MS

Matrix: Water

Analysis Batch: 130880

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	<0.896	U	50.0	44.68		ug/L		89	62 - 125
Chlorobenzene	<0.455	U	50.0	47.29		ug/L		95	60 - 133
Chlorodibromomethane	<0.547	U	50.0	44.83		ug/L		90	73 - 125
Chloroethane	<1.98	U	50.0	40.50		ug/L		81	60 - 140
Chloroform	<0.464	U	50.0	45.59		ug/L		91	70 - 130
Chloromethane	<2.04	U	50.0	37.41		ug/L		75	60 - 140
Chloroprene	<0.598	U	50.0	44.83		ug/L		90	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	44.33		ug/L		89	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	49.06		ug/L		98	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	50.25		ug/L		101	75 - 125
Cyclohexane	<1.29	U	50.0	41.78		ug/L		84	70 - 130
Dibromomethane	<0.357	U	50.0	46.29		ug/L		93	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	35.69		ug/L		71	70 - 130
Ethyl methacrylate	<1.12	U	50.0	51.18		ug/L		102	70 - 130
Ethylbenzene	<0.385	U	50.0	48.50		ug/L		97	75 - 125
Hexane	<0.517	U	50.0	45.53		ug/L		91	72 - 125
Iodomethane	<6.52	U	50.0	41.95		ug/L		84	75 - 125
Isobutanol	<17.1	U	1240	1181		ug/L		95	60 - 140
Methacrylonitrile	<2.72	U	500	461.5		ug/L		92	70 - 130
Methyl methacrylate	<2.25	U	100	97.06		ug/L		97	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	43.35		ug/L		87	65 - 135
Methylene Chloride	<1.73	U	50.0	39.54		ug/L		79	75 - 125
Propionitrile	<3.34	U	500	465.1		ug/L		93	70 - 130
Propylbenzene	<0.429	U	50.0	49.86		ug/L		100	75 - 125
Styrene	<0.619	U	50.0	50.57		ug/L		101	75 - 125
Tetrachloroethene	<0.655	U	50.0	47.69		ug/L		95	71 - 125
Tetrahydrofuran	<1.83	U	100	89.77		ug/L		90	75 - 125
Toluene	<0.475	U	50.0	46.63		ug/L		93	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	44.95		ug/L		90	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	48.62		ug/L		97	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	47.96		ug/L		96	70 - 130
Trichloroethene	<0.791	U	50.0	41.57		ug/L		83	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	39.61		ug/L		79	60 - 140
Vinyl acetate	<2.14	U	250	222.5		ug/L		89	60 - 140
Vinyl chloride	<0.428	U	50.0	38.67		ug/L		77	60 - 140
Xylenes, Total	<1.24	U	100	99.23		ug/L		99	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.05001		mg/L		100	75 - 125
o-Xylene	<0.000502	U	0.0500	0.04922		mg/L		98	75 - 125
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	99		63 - 144						
4-Bromofluorobenzene (Surr)	101		74 - 124						
Dibromofluoromethane (Surr)	99		75 - 131						
Toluene-d8 (Surr)	100		80 - 120						

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130977/9

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/15/23 00:25	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/15/23 00:25	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/15/23 00:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/15/23 00:25	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/15/23 00:25	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/15/23 00:25	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/15/23 00:25	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/15/23 00:25	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/15/23 00:25	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/15/23 00:25	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/15/23 00:25	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/15/23 00:25	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/15/23 00:25	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/15/23 00:25	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/15/23 00:25	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/15/23 00:25	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/15/23 00:25	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/15/23 00:25	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/15/23 00:25	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/15/23 00:25	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/15/23 00:25	1
Acetone	<3.07	U	100	3.07	ug/L			11/15/23 00:25	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/15/23 00:25	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/15/23 00:25	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/15/23 00:25	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/15/23 00:25	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/15/23 00:25	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/15/23 00:25	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/15/23 00:25	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/15/23 00:25	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/15/23 00:25	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/15/23 00:25	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/15/23 00:25	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/15/23 00:25	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/15/23 00:25	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/15/23 00:25	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/15/23 00:25	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/15/23 00:25	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/15/23 00:25	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/15/23 00:25	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/15/23 00:25	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/15/23 00:25	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/15/23 00:25	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/15/23 00:25	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/15/23 00:25	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/15/23 00:25	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/15/23 00:25	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/15/23 00:25	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130977/9

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/15/23 00:25	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/15/23 00:25	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/15/23 00:25	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/15/23 00:25	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/15/23 00:25	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/15/23 00:25	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/15/23 00:25	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/15/23 00:25	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/15/23 00:25	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/15/23 00:25	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/15/23 00:25	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/15/23 00:25	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/15/23 00:25	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/15/23 00:25	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/15/23 00:25	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/15/23 00:25	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/15/23 00:25	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/15/23 00:25	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/15/23 00:25	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/15/23 00:25	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/15/23 00:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		11/15/23 00:25	1
4-Bromofluorobenzene (Surr)	115		74 - 124		11/15/23 00:25	1
Dibromofluoromethane (Surr)	106		75 - 131		11/15/23 00:25	1
Toluene-d8 (Surr)	104		80 - 120		11/15/23 00:25	1

Lab Sample ID: LCS 860-130977/3

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	50.65		ug/L		101	72 - 125
1,1,1-Trichloroethane	50.0	53.66		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.41		ug/L		105	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.27		ug/L		95	60 - 140
1,1,2-Trichloroethane	50.0	52.21		ug/L		104	70 - 130
1,1-Dichloroethane	50.0	54.63		ug/L		109	70 - 130
1,1-Dichloroethene	50.0	48.27		ug/L		97	50 - 150
1,2,3-Trichloropropane	50.0	55.57		ug/L		111	75 - 125
1,2,4-Trimethylbenzene	50.0	51.91		ug/L		104	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	44.18		ug/L		88	59 - 125
1,2-Dibromoethane	50.0	52.24		ug/L		104	73 - 125
1,2-Dichloroethane	50.0	55.19		ug/L		110	72 - 130
1,2-Dichloropropane	50.0	53.31		ug/L		107	74 - 125
1,3,5-Trimethylbenzene	50.0	52.65		ug/L		105	60 - 140
1,3-Butadiene	50.0	47.65		ug/L		95	60 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130977/3

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	61.43		ug/L		123	70 - 130
2-Butanone (MEK)	250	278.9		ug/L		112	60 - 140
2-Hexanone (MBK)	250	273.3		ug/L		109	60 - 140
2-Propanol	500	593.1		ug/L		119	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	51.31		ug/L		103	70 - 130
4-Methyl-2-pentanone	250	277.2		ug/L		111	60 - 140
Acetone	250	278.0		ug/L		111	60 - 140
Acetonitrile	500	690.0		ug/L		138	60 - 140
Acrolein	250	205.3		ug/L		82	60 - 140
Acrylonitrile	500	607.3		ug/L		121	60 - 140
alpha-Chlorotoluene	50.0	42.82		ug/L		86	75 - 125
Benzene	50.0	53.80		ug/L		108	75 - 125
Bromodichloromethane	50.0	53.83		ug/L		108	75 - 125
Bromoform	50.0	42.60		ug/L		85	70 - 130
Bromomethane	50.0	39.23		ug/L		78	60 - 140
Carbon disulfide	50.0	49.87		ug/L		100	60 - 140
Carbon tetrachloride	50.0	50.24		ug/L		100	70 - 130
Chlorobenzene	50.0	49.16		ug/L		98	65 - 135
Chlorodibromomethane	50.0	50.82		ug/L		102	73 - 125
Chloroethane	50.0	51.36		ug/L		103	60 - 140
Chloroform	50.0	54.82		ug/L		110	70 - 121
Chloromethane	50.0	47.80		ug/L		96	60 - 140
Chloroprene	50.0	55.45		ug/L		111	70 - 130
cis-1,2-Dichloroethene	50.0	53.87		ug/L		108	75 - 125
cis-1,3-Dichloropropene	50.0	54.93		ug/L		110	74 - 125
Cumene (isopropylbenzene)	50.0	49.97		ug/L		100	75 - 125
Cyclohexane	50.0	48.82		ug/L		98	70 - 130
Dibromomethane	50.0	55.32		ug/L		111	69 - 127
Dichlorodifluoromethane	50.0	34.25		ug/L		69	50 - 150
Ethyl methacrylate	50.0	57.02		ug/L		114	70 - 130
Ethylbenzene	50.0	50.64		ug/L		101	75 - 125
Hexane	50.0	49.21		ug/L		98	72 - 125
Iodomethane	50.0	52.84		ug/L		106	75 - 125
Methacrylonitrile	500	596.9		ug/L		119	70 - 130
Methyl methacrylate	100	123.2		ug/L		123	70 - 130
Methyl tert-butyl ether	50.0	58.05		ug/L		116	65 - 135
Methylene Chloride	50.0	50.92		ug/L		102	71 - 125
Propionitrile	500	646.7		ug/L		129	70 - 130
Propylbenzene	50.0	52.28		ug/L		105	75 - 125
Styrene	50.0	50.56		ug/L		101	75 - 125
Tetrachloroethene	50.0	48.07		ug/L		96	71 - 125
Tetrahydrofuran	100	106.6		ug/L		107	75 - 125
Toluene	50.0	49.93		ug/L		100	70 - 130
trans-1,2-Dichloroethene	50.0	53.31		ug/L		107	75 - 125
trans-1,3-Dichloropropene	50.0	53.27		ug/L		107	66 - 125
trans-1,4-Dichloro-2-butene	50.0	57.33		ug/L		115	70 - 130
Trichloroethene	50.0	51.08		ug/L		102	75 - 135
Trichlorofluoromethane	50.0	51.64		ug/L		103	60 - 140
Vinyl acetate	250	280.8		ug/L		112	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130977/3

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	50.0	51.96		ug/L		104	60 - 140
Xylenes, Total	100	101.8		ug/L		102	75 - 125
m,p-Xylenes	0.0500	0.05090		mg/L		102	75 - 125
o-Xylene	0.0500	0.05088		mg/L		102	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		63 - 144
4-Bromofluorobenzene (Surr)	106		74 - 124
Dibromofluoromethane (Surr)	105		75 - 131
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 860-130977/4

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	51.62		ug/L		103	72 - 125	2	25
1,1,1-Trichloroethane	50.0	54.25		ug/L		108	70 - 130	1	25
1,1,2,2-Tetrachloroethane	50.0	56.01		ug/L		112	74 - 125	7	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.24		ug/L		96	60 - 140	2	25
1,1,2-Trichloroethane	50.0	53.79		ug/L		108	70 - 130	3	25
1,1-Dichloroethane	50.0	57.09		ug/L		114	70 - 130	4	25
1,1-Dichloroethene	50.0	50.87		ug/L		102	50 - 150	5	25
1,2,3-Trichloropropane	50.0	59.43		ug/L		119	75 - 125	7	25
1,2,4-Trimethylbenzene	50.0	56.96		ug/L		114	75 - 125	9	25
1,2-Dibromo-3-Chloropropane	50.0	50.01		ug/L		100	59 - 125	12	25
1,2-Dibromoethane	50.0	53.42		ug/L		107	73 - 125	2	25
1,2-Dichloroethane	50.0	55.30		ug/L		111	72 - 130	0	25
1,2-Dichloropropane	50.0	55.30		ug/L		111	74 - 125	4	25
1,3,5-Trimethylbenzene	50.0	57.25		ug/L		114	60 - 140	8	25
1,3-Butadiene	50.0	45.88		ug/L		92	60 - 150	4	25
2,2,4-Trimethylpentane	50.0	58.48		ug/L		117	70 - 130	5	25
2-Butanone (MEK)	250	278.7		ug/L		111	60 - 140	0	25
2-Hexanone (MBK)	250	282.0		ug/L		113	60 - 140	3	25
2-Propanol	500	586.7		ug/L		117	70 - 120	1	25
3-Chloropropene (Allyl Chloride)	50.0	54.35		ug/L		109	70 - 130	6	25
4-Methyl-2-pentanone	250	280.5		ug/L		112	60 - 140	1	25
Acetone	250	280.7		ug/L		112	60 - 140	1	25
Acetonitrile	500	679.0		ug/L		136	60 - 140	2	25
Acrolein	250	212.2		ug/L		85	60 - 140	3	25
Acrylonitrile	500	611.8		ug/L		122	60 - 140	1	25
alpha-Chlorotoluene	50.0	46.95		ug/L		94	75 - 125	9	25
Benzene	50.0	54.28		ug/L		109	75 - 125	1	25
Bromodichloromethane	50.0	54.68		ug/L		109	75 - 125	2	25
Bromoform	50.0	43.63		ug/L		87	70 - 130	2	25
Bromomethane	50.0	36.80		ug/L		74	60 - 140	6	25
Carbon disulfide	50.0	50.72		ug/L		101	60 - 140	2	25
Carbon tetrachloride	50.0	50.33		ug/L		101	70 - 130	0	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130977/4

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene	50.0	50.34		ug/L		101	65 - 135	2	25
Chlorodibromomethane	50.0	51.22		ug/L		102	73 - 125	1	25
Chloroethane	50.0	47.39		ug/L		95	60 - 140	8	25
Chloroform	50.0	55.00		ug/L		110	70 - 121	0	25
Chloromethane	50.0	45.88		ug/L		92	60 - 140	4	25
Chloroprene	50.0	56.99		ug/L		114	70 - 130	3	25
cis-1,2-Dichloroethene	50.0	54.59		ug/L		109	75 - 125	1	25
cis-1,3-Dichloropropene	50.0	54.89		ug/L		110	74 - 125	0	25
Cumene (isopropylbenzene)	50.0	52.06		ug/L		104	75 - 125	4	25
Cyclohexane	50.0	49.61		ug/L		99	70 - 130	2	25
Dibromomethane	50.0	56.03		ug/L		112	69 - 127	1	25
Dichlorodifluoromethane	50.0	32.94		ug/L		66	50 - 150	4	25
Ethyl methacrylate	50.0	58.09		ug/L		116	70 - 130	2	25
Ethylbenzene	50.0	52.06		ug/L		104	75 - 125	3	25
Hexane	50.0	52.46		ug/L		105	72 - 125	6	25
Iodomethane	50.0	53.49		ug/L		107	75 - 125	1	25
Methacrylonitrile	500	596.6		ug/L		119	70 - 130	0	25
Methyl methacrylate	100	125.1		ug/L		125	70 - 130	2	25
Methyl tert-butyl ether	50.0	58.30		ug/L		117	65 - 135	0	25
Methylene Chloride	50.0	52.07		ug/L		104	71 - 125	2	25
Propionitrile	500	647.5		ug/L		129	70 - 130	0	25
Propylbenzene	50.0	56.10		ug/L		112	75 - 125	7	25
Styrene	50.0	52.75		ug/L		105	75 - 125	4	25
Tetrachloroethene	50.0	49.05		ug/L		98	71 - 125	2	25
Tetrahydrofuran	100	106.5		ug/L		107	75 - 125	0	25
Toluene	50.0	52.49		ug/L		105	70 - 130	5	25
trans-1,2-Dichloroethene	50.0	50.09		ug/L		100	75 - 125	6	25
trans-1,3-Dichloropropene	50.0	54.80		ug/L		110	66 - 125	3	25
trans-1,4-Dichloro-2-butene	50.0	61.04		ug/L		122	70 - 130	6	25
Trichloroethene	50.0	53.58		ug/L		107	75 - 135	5	25
Trichlorofluoromethane	50.0	50.78		ug/L		102	60 - 140	2	25
Vinyl acetate	250	268.1		ug/L		107	60 - 140	5	25
Vinyl chloride	50.0	46.84		ug/L		94	60 - 140	10	25
Xylenes, Total	100	103.0		ug/L		103	75 - 125	1	25
m,p-Xylenes	0.0500	0.05091		mg/L		102	75 - 125	0	25
o-Xylene	0.0500	0.05209		mg/L		104	75 - 125	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		63 - 144
4-Bromofluorobenzene (Surr)	111		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
Toluene-d8 (Surr)	104		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61182-I-2 MS

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	52.69		ug/L		105	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	57.25		ug/L		115	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	58.62		ug/L		117	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	46.98		ug/L		94	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	53.05		ug/L		106	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	57.54		ug/L		115	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	52.37		ug/L		105	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	55.08		ug/L		110	75 - 125
1,2,4-Trimethylbenzene	1.75		50.0	58.17		ug/L		113	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	47.89		ug/L		96	59 - 125
1,2-Dibromoethane	4.50	J	50.0	58.58		ug/L		108	73 - 125
1,2-Dichloroethane	15.5		50.0	72.59		ug/L		114	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	55.59		ug/L		111	74 - 125
1,3,5-Trimethylbenzene	0.871	J	50.0	56.45		ug/L		111	70 - 125
1,3-Butadiene	<0.568	U	50.0	45.40		ug/L		91	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	63.02		ug/L		126	70 - 130
2-Butanone (MEK)	31.6	J	250	319.2		ug/L		115	60 - 140
2-Hexanone (MBK)	40.5	J	250	337.8		ug/L		119	60 - 140
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	54.10		ug/L		108	70 - 130
4-Methyl-2-pentanone	11.4	J	250	304.7		ug/L		117	60 - 140
Acetone	49.3	J	250	311.5		ug/L		105	60 - 140
Acetonitrile	<14.6	U	500	674.2		ug/L		135	60 - 140
Acrolein	<11.1	U	250	188.0		ug/L		75	50 - 150
Acrylonitrile	<14.3	U	500	583.9		ug/L		117	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	43.43		ug/L		87	70 - 130
Benzene	30.9		50.0	87.64		ug/L		113	66 - 142
Bromodichloromethane	<0.552	U	50.0	55.08		ug/L		110	75 - 125
Bromoform	<0.633	U	50.0	43.95		ug/L		88	75 - 125
Bromomethane	<1.42	U	50.0	36.37		ug/L		73	60 - 140
Carbon disulfide	<1.65	U	50.0	53.22		ug/L		106	60 - 140
Carbon tetrachloride	<0.896	U	50.0	52.04		ug/L		104	62 - 125
Chlorobenzene	<0.455	U	50.0	52.17		ug/L		104	60 - 133
Chlorodibromomethane	<0.547	U	50.0	52.02		ug/L		104	73 - 125
Chloroethane	<1.98	U	50.0	46.58		ug/L		93	60 - 140
Chloroform	<0.464	U	50.0	56.27		ug/L		113	70 - 130
Chloromethane	<2.04	U	50.0	45.84		ug/L		92	60 - 140
Chloroprene	<0.598	U	50.0	57.10		ug/L		114	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	54.74		ug/L		109	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	55.38		ug/L		111	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	52.44		ug/L		105	75 - 125
Cyclohexane	<1.29	U	50.0	51.07		ug/L		102	70 - 130
Dibromomethane	<0.357	U	50.0	54.83		ug/L		110	69 - 127
Ethyl methacrylate	<1.12	U	50.0	59.48		ug/L		119	70 - 130
Ethylbenzene	1.08		50.0	54.44		ug/L		107	75 - 125
Hexane	<0.517	U	50.0	50.87		ug/L		102	72 - 125
Iodomethane	<6.52	U	50.0	55.30		ug/L		111	75 - 125
Isobutanol	<17.1	U *+	1240	1733		ug/L		140	60 - 140
Methacrylonitrile	<2.72	U	500	592.8		ug/L		119	70 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61182-I-2 MS

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl methacrylate	<2.25	U	100	125.3		ug/L		125	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	58.81		ug/L		118	65 - 135
Methylene Chloride	<1.73	U	50.0	49.62		ug/L		99	75 - 125
Propionitrile	<3.34	U	500	624.6		ug/L		125	70 - 130
Propylbenzene	<0.429	U	50.0	55.03		ug/L		110	75 - 125
Styrene	<0.619	U	50.0	52.85		ug/L		106	75 - 125
Tetrachloroethene	<0.655	U	50.0	49.60		ug/L		99	71 - 125
Tetrahydrofuran	<1.83	U	100	102.1		ug/L		102	75 - 125
Toluene	23.6		50.0	76.33		ug/L		106	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	57.97		ug/L		116	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	54.97		ug/L		110	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	57.84		ug/L		116	70 - 130
Trichloroethene	<0.791	U	50.0	52.82		ug/L		106	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	49.46		ug/L		99	60 - 140
Vinyl acetate	<2.14	U	250	295.4		ug/L		118	60 - 140
Vinyl chloride	<0.428	U	50.0	48.53		ug/L		97	60 - 140
Xylenes, Total	14.3		100	120.3		ug/L		106	75 - 125
m,p-Xylenes	0.00850	J	0.0500	0.06096		mg/L		105	75 - 125
o-Xylene	0.00575		0.0500	0.05932		mg/L		107	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		63 - 144
4-Bromofluorobenzene (Surr)	105		74 - 124
Dibromofluoromethane (Surr)	105		75 - 131
Toluene-d8 (Surr)	101		80 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-130949/1-A

Matrix: Water

Analysis Batch: 131366

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.150	U	0.571	0.150	ug/L		11/14/23 10:57	11/16/23 12:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	102		37 - 133	11/14/23 10:57	11/16/23 12:43	1

Lab Sample ID: LCS 860-130949/2-A

Matrix: Water

Analysis Batch: 131366

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.86	0.8920		ug/L		31	27 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	78		35 - 130
2-Fluorophenol (Surr)	37		19 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-130949/2-A

Matrix: Water

Analysis Batch: 131366

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130949

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	80		43 - 130
Nitrobenzene-d5 (Surr)	110		37 - 133
Phenol-d5 (Surr)	23		8 - 124
p-Terphenyl-d14 (Surr)	112		47 - 130

Lab Sample ID: LCSD 860-130949/3-A

Matrix: Water

Analysis Batch: 131366

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130949

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	3.30	1.110		ug/L		34	27 - 130	22	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	76		35 - 130
2-Fluorophenol (Surr)	39		19 - 120
2-Fluorobiphenyl	82		43 - 130
Nitrobenzene-d5 (Surr)	111		37 - 133
Phenol-d5 (Surr)	25		8 - 124
p-Terphenyl-d14 (Surr)	113		47 - 130

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 860-130871/1-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/14/23 06:48	11/14/23 20:01	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/14/23 06:48	11/14/23 20:01	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/14/23 06:48	11/14/23 20:01	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/14/23 06:48	11/14/23 20:01	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/14/23 06:48	11/14/23 20:01	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/14/23 06:48	11/14/23 20:01	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/14/23 06:48	11/14/23 20:01	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/14/23 06:48	11/14/23 20:01	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/14/23 06:48	11/14/23 20:01	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/14/23 20:01	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/14/23 06:48	11/14/23 20:01	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130871/1-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/14/23 20:01	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/14/23 06:48	11/14/23 20:01	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/14/23 06:48	11/14/23 20:01	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/14/23 06:48	11/14/23 20:01	1
3,3'-Dimethylbenzidine	<0.444	U	8.00	0.444	ug/L		11/14/23 06:48	11/14/23 20:01	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/14/23 06:48	11/14/23 20:01	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/14/23 06:48	11/14/23 20:01	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/14/23 06:48	11/14/23 20:01	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/14/23 06:48	11/14/23 20:01	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/14/23 06:48	11/14/23 20:01	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/14/23 06:48	11/14/23 20:01	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/14/23 06:48	11/14/23 20:01	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/14/23 06:48	11/14/23 20:01	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/14/23 06:48	11/14/23 20:01	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/14/23 06:48	11/14/23 20:01	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/14/23 06:48	11/14/23 20:01	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/14/23 06:48	11/14/23 20:01	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/14/23 06:48	11/14/23 20:01	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/14/23 06:48	11/14/23 20:01	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/14/23 06:48	11/14/23 20:01	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/14/23 06:48	11/14/23 20:01	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/14/23 06:48	11/14/23 20:01	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/14/23 20:01	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/14/23 20:01	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/14/23 20:01	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/14/23 06:48	11/14/23 20:01	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/14/23 20:01	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/14/23 06:48	11/14/23 20:01	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/14/23 06:48	11/14/23 20:01	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/14/23 06:48	11/14/23 20:01	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/14/23 06:48	11/14/23 20:01	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/14/23 06:48	11/14/23 20:01	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/14/23 06:48	11/14/23 20:01	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/14/23 20:01	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/14/23 20:01	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/14/23 20:01	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/14/23 06:48	11/14/23 20:01	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/14/23 06:48	11/14/23 20:01	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/14/23 06:48	11/14/23 20:01	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/14/23 06:48	11/14/23 20:01	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/14/23 06:48	11/14/23 20:01	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/14/23 06:48	11/14/23 20:01	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130871/1-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/14/23 06:48	11/14/23 20:01	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/14/23 06:48	11/14/23 20:01	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/14/23 06:48	11/14/23 20:01	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/14/23 20:01	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/14/23 06:48	11/14/23 20:01	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/14/23 06:48	11/14/23 20:01	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/14/23 06:48	11/14/23 20:01	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/14/23 06:48	11/14/23 20:01	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/14/23 20:01	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/14/23 06:48	11/14/23 20:01	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/14/23 06:48	11/14/23 20:01	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/14/23 06:48	11/14/23 20:01	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/14/23 06:48	11/14/23 20:01	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/14/23 06:48	11/14/23 20:01	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/14/23 06:48	11/14/23 20:01	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/14/23 20:01	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/14/23 06:48	11/14/23 20:01	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/14/23 06:48	11/14/23 20:01	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/14/23 06:48	11/14/23 20:01	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/14/23 06:48	11/14/23 20:01	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/14/23 06:48	11/14/23 20:01	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/14/23 06:48	11/14/23 20:01	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/14/23 06:48	11/14/23 20:01	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/14/23 06:48	11/14/23 20:01	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/14/23 06:48	11/14/23 20:01	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/14/23 06:48	11/14/23 20:01	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/14/23 06:48	11/14/23 20:01	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/14/23 06:48	11/14/23 20:01	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/14/23 06:48	11/14/23 20:01	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/14/23 06:48	11/14/23 20:01	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/14/23 06:48	11/14/23 20:01	1
p-Phenylene diamine	<10.0	U	10.0	10.0	ug/L		11/14/23 06:48	11/14/23 20:01	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/14/23 06:48	11/14/23 20:01	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/14/23 06:48	11/14/23 20:01	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/14/23 06:48	11/14/23 20:01	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/14/23 06:48	11/14/23 20:01	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/14/23 06:48	11/14/23 20:01	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/14/23 06:48	11/14/23 20:01	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/14/23 06:48	11/14/23 20:01	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/14/23 06:48	11/14/23 20:01	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130871/1-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/14/23 06:48	11/14/23 20:01	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/14/23 06:48	11/14/23 20:01	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/14/23 06:48	11/14/23 20:01	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/14/23 06:48	11/14/23 20:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	42		31 - 132	11/14/23 06:48	11/14/23 20:01	1
2-Fluorobiphenyl	53		40 - 130	11/14/23 06:48	11/14/23 20:01	1
2-Fluorophenol (Surr)	37		21 - 114	11/14/23 06:48	11/14/23 20:01	1
Nitrobenzene-d5 (Surr)	56		37 - 130	11/14/23 06:48	11/14/23 20:01	1
Phenol-d5 (Surr)	29		16 - 117	11/14/23 06:48	11/14/23 20:01	1
p-Terphenyl-d14	97		20 - 141	11/14/23 06:48	11/14/23 20:01	1

Lab Sample ID: LCS 860-130871/2-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	20.0	9.378		ug/L		47	41 - 117
1,2,4,5-Tetrachlorobenzene	20.0	9.054		ug/L		45	39 - 120
1,2,4-Trichlorobenzene	20.0	9.674		ug/L		48	34 - 117
1,2-Dichlorobenzene	20.0	10.19		ug/L		51	38 - 111
1,3,5-Trinitrobenzene	20.0	16.37		ug/L		82	35 - 128
1,3-Dichlorobenzene	20.0	9.937		ug/L		50	37 - 111
1,3-Dinitrobenzene	20.0	10.67		ug/L		53	36 - 131
1,4-Dichlorobenzene	20.0	10.02		ug/L		50	37 - 111
1,4-Naphthoquinone	20.0	10.47		ug/L		52	10 - 150
1-Naphthylamine	20.0	8.173		ug/L		41	40 - 120
2,2'-oxybis[1-chloropropane]	20.0	9.637		ug/L		48	10 - 150
2,3,4,6-Tetrachlorophenol	20.0	11.16		ug/L		56	33 - 132
2,4,5-Trichlorophenol	20.0	10.38		ug/L		52	39 - 125
2,4,6-Trichlorophenol	20.0	10.33		ug/L		52	42 - 125
2,4-Dichlorophenol	20.0	10.22		ug/L		51	38 - 120
2,4-Dimethylphenol	20.0	11.77		ug/L		59	39 - 117
2,4-Dinitrophenol	20.0	11.12		ug/L		56	13 - 152
2,4-Dinitrotoluene	20.0	11.88		ug/L		59	41 - 128
2,6-Dichlorophenol	20.0	9.995		ug/L		50	42 - 118
2,6-Dinitrotoluene	20.0	10.42		ug/L		52	42 - 127
2-Acetylaminofluorene	20.0	14.09		ug/L		70	40 - 130
2-Chloronaphthalene	20.0	9.048		ug/L		45	40 - 118
2-Chlorophenol	20.0	10.32		ug/L		52	41 - 108
2-Methylnaphthalene	20.0	9.674		ug/L		48	37 - 112
2-Methylphenol	20.0	9.840		ug/L		49	36 - 125
2-Naphthylamine	20.0	7.902	J	ug/L		40	40 - 120
2-Nitroaniline	20.0	10.92		ug/L		55	34 - 126
2-Nitrophenol	20.0	10.30		ug/L		51	38 - 125
2-Picoline	20.0	5.721		ug/L		29	11 - 107
2-Toluidine	20.0	8.270		ug/L		41	38 - 124

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130871/2-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3 & 4 Methylphenol	20.0	9.502		ug/L		48	35 - 116
3,3'-Dichlorobenzidine	20.0	15.81		ug/L		79	29 - 141
3,3'-Dimethylbenzidine	20.0	5.756	J *	ug/L		29	40 - 130
3-Methylcholanthrene	20.0	16.14		ug/L		81	20 - 130
3-Nitroaniline	20.0	10.95		ug/L		55	42 - 123
4,6-Dinitro-2-methylphenol	20.0	13.29		ug/L		66	12 - 157
4-Aminobiphenyl	20.0	9.463		ug/L		47	20 - 130
4-Bromophenyl phenyl ether	20.0	9.561		ug/L		48	40 - 126
4-Chloro-3-methylphenol	20.0	9.711		ug/L		49	40 - 119
4-Chloroaniline	20.0	9.018		ug/L		45	39 - 111
4-Chlorophenyl phenyl ether	20.0	9.462		ug/L		47	40 - 122
4-Nitroaniline	20.0	13.87		ug/L		69	42 - 125
4-Nitroquinoline-1-oxide	20.0	15.34		ug/L		77	20 - 130
7,12-Dimethylbenz(a)anthracene	20.0	14.20		ug/L		71	40 - 120
Acenaphthene	20.0	9.855		ug/L		49	41 - 116
Acenaphthylene	20.0	9.935		ug/L		50	41 - 118
Acetophenone	20.0	10.06		ug/L		50	23 - 175
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0	
Aniline	20.0	8.544		ug/L		43	31 - 100
Anthracene	20.0	10.92		ug/L		55	39 - 127
Benzo[a]anthracene	20.0	15.75		ug/L		79	40 - 129
Benzo[a]pyrene	20.0	16.73		ug/L		84	36 - 141
Benzo[b]fluoranthene	20.0	16.26		ug/L		81	34 - 139
Benzo[g,h,i]perylene	20.0	17.24		ug/L		86	32 - 141
Benzo[k]fluoranthene	20.0	16.81		ug/L		84	31 - 139
Benzyl alcohol	20.0	11.00		ug/L		55	37 - 102
Bis(2-chloroethoxy)methane	20.0	9.618		ug/L		48	36 - 113
Bis(2-chloroethyl)ether	20.0	10.45		ug/L		52	38 - 111
Bis(2-ethylhexyl) phthalate	20.0	16.47		ug/L		82	44 - 136
Butyl benzyl phthalate	20.0	17.14		ug/L		86	44 - 133
Chrysene	20.0	15.30		ug/L		76	41 - 124
Dibenz(a,h)anthracene	20.0	17.57		ug/L		88	35 - 143
Dibenzofuran	20.0	9.674		ug/L		48	41 - 119
Diethyl phthalate	20.0	10.73		ug/L		54	41 - 125
Dimethyl phthalate	20.0	10.57		ug/L		53	42 - 123
Di-n-butyl phthalate	20.0	15.83		ug/L		79	41 - 133
Di-n-octyl phthalate	20.0	17.46		ug/L		87	34 - 145
Diphenyl ether	20.0	9.213		ug/L		46	40 - 130
Ethyl methanesulfonate	20.0	10.65		ug/L		53	40 - 127
Fluoranthene	20.0	14.30		ug/L		72	38 - 132
Fluorene	20.0	9.718		ug/L		49	41 - 121
Hexachlorobenzene	20.0	9.910		ug/L		50	39 - 128
Hexachlorobutadiene	20.0	9.061		ug/L		45	31 - 120
Hexachlorocyclopentadiene	20.0	11.33		ug/L		57	15 - 117
Hexachloroethane	20.0	9.593		ug/L		48	37 - 109
Hexachloropropene	20.0	8.989		ug/L		45	24 - 122
Indeno[1,2,3-cd]pyrene	20.0	17.49		ug/L		87	35 - 141
Isophorone	20.0	10.09		ug/L		50	40 - 115

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130871/2-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl methanesulfonate	20.0	9.236		ug/L		46	33 - 120
Naphthalene	20.0	9.633		ug/L		48	37 - 113
Nitrobenzene	20.0	10.73		ug/L		54	37 - 114
N-Nitro-o-toluidine	20.0	11.44		ug/L		57	40 - 120
N-Nitrosodiethylamine	20.0	10.73		ug/L		54	42 - 115
N-Nitrosodimethylamine	20.0	9.030		ug/L		45	28 - 126
N-Nitrosodi-n-butylamine	20.0	7.966		ug/L		40	34 - 122
N-Nitrosodi-n-propylamine	20.0	9.982		ug/L		50	38 - 117
N-Nitrosodiphenylamine	20.0	10.70		ug/L		54	40 - 127
N-Nitrosomethylethylamine	20.0	10.88		ug/L		54	41 - 108
N-Nitrosomorpholine	20.0	10.14		ug/L		51	32 - 115
N-Nitrosopiperidine	20.0	10.58		ug/L		53	39 - 115
N-Nitrosopyrrolidine	20.0	11.09		ug/L		55	36 - 121
p-Dimethylamino azobenzene	20.0	13.35		ug/L		67	38 - 124
Pentachlorobenzene	20.0	9.341		ug/L		47	40 - 123
Pentachloronitrobenzene	20.0	11.34		ug/L		57	40 - 120
Pentachlorophenol	20.0	12.78		ug/L		64	10 - 137
Phenacetin	20.0	14.50		ug/L		72	20 - 130
Phenanthrene	20.0	10.64		ug/L		53	39 - 126
Phenol	20.0	6.394		ug/L		32	15 - 106
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150
Pronamide	20.0	15.42		ug/L		77	25 - 120
Pyrene	20.0	13.27		ug/L		66	40 - 130
Pyridine	20.0	5.731		ug/L		29	16 - 135
Safrole, Total	20.0	9.430		ug/L		47	40 - 120
Aramite Peak 2	10.0	6.932		ug/L		69	35 - 130
Isosafrole Peak 1	3.20	<2.46	U	ug/L		47	40 - 120
Diallate Peak 2	5.20	2.539	J	ug/L		49	38 - 130
Isosafrole Peak 2	16.8	8.008		ug/L		48	40 - 120
Diallate Peak 1	14.8	7.896	J	ug/L		53	38 - 130
Aramite Peak 1	10.0	7.103		ug/L		71	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	59		31 - 132
2-Fluorobiphenyl	55		40 - 130
2-Fluorophenol (Surr)	45		21 - 114
Nitrobenzene-d5 (Surr)	60		37 - 130
Phenol-d5 (Surr)	34		16 - 117
p-Terphenyl-d14	98		20 - 141

Lab Sample ID: LCSD 860-130871/3-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	20.0	9.993		ug/L		50	41 - 117	6	30
1,2,4,5-Tetrachlorobenzene	20.0	9.825		ug/L		49	39 - 120	8	30
1,2,4-Trichlorobenzene	20.0	9.817		ug/L		49	34 - 117	1	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatle Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130871/3-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene	20.0	10.34		ug/L		52	38 - 111	1	30
1,3,5-Trinitrobenzene	20.0	16.30		ug/L		82	35 - 128	0	30
1,3-Dichlorobenzene	20.0	10.18		ug/L		51	37 - 111	2	30
1,3-Dinitrobenzene	20.0	12.29		ug/L		61	36 - 131	14	30
1,4-Dichlorobenzene	20.0	10.13		ug/L		51	37 - 111	1	30
1,4-Naphthoquinone	20.0	12.71		ug/L		64	10 - 150	19	30
1-Naphthylamine	20.0	10.19		ug/L		51	40 - 120	22	30
2,2'-oxybis[1-chloropropane]	20.0	10.00		ug/L		50	10 - 150	4	30
2,3,4,6-Tetrachlorophenol	20.0	13.19		ug/L		66	33 - 132	17	30
2,4,5-Trichlorophenol	20.0	12.29		ug/L		61	39 - 125	17	30
2,4,6-Trichlorophenol	20.0	11.98		ug/L		60	42 - 125	15	30
2,4-Dichlorophenol	20.0	11.09		ug/L		55	38 - 120	8	30
2,4-Dimethylphenol	20.0	12.63		ug/L		63	39 - 117	7	30
2,4-Dinitrophenol	20.0	13.10		ug/L		65	13 - 152	16	30
2,4-Dinitrotoluene	20.0	13.46		ug/L		67	41 - 128	13	30
2,6-Dichlorophenol	20.0	10.52		ug/L		53	42 - 118	5	30
2,6-Dinitrotoluene	20.0	12.19		ug/L		61	42 - 127	16	30
2-Acetylaminofluorene	20.0	13.77		ug/L		69	40 - 130	2	30
2-Chloronaphthalene	20.0	9.921		ug/L		50	40 - 118	9	30
2-Chlorophenol	20.0	10.37		ug/L		52	41 - 108	0	30
2-Methylnaphthalene	20.0	10.21		ug/L		51	37 - 112	5	30
2-Methylphenol	20.0	10.02		ug/L		50	36 - 125	2	30
2-Naphthylamine	20.0	10.19		ug/L		51	40 - 120	25	30
2-Nitroaniline	20.0	12.97		ug/L		65	34 - 126	17	30
2-Nitrophenol	20.0	11.06		ug/L		55	38 - 125	7	30
2-Picoline	20.0	5.823		ug/L		29	11 - 107	2	30
2-Toluidine	20.0	10.13		ug/L		51	38 - 124	20	30
3 & 4 Methylphenol	20.0	9.853		ug/L		49	35 - 116	4	30
3,3'-Dichlorobenzidine	20.0	15.05		ug/L		75	29 - 141	5	30
3,3'-Dimethylbenzidine	20.0	4.750	J *	ug/L		24	40 - 130	19	30
3-Methylcholanthrene	20.0	15.12		ug/L		76	20 - 130	7	30
3-Nitroaniline	20.0	12.81		ug/L		64	42 - 123	16	30
4,6-Dinitro-2-methylphenol	20.0	13.57		ug/L		68	12 - 157	2	30
4-Aminobiphenyl	20.0	10.60		ug/L		53	20 - 130	11	30
4-Bromophenyl phenyl ether	20.0	11.25		ug/L		56	40 - 126	16	30
4-Chloro-3-methylphenol	20.0	11.41		ug/L		57	40 - 119	16	30
4-Chloroaniline	20.0	10.61		ug/L		53	39 - 111	16	30
4-Chlorophenyl phenyl ether	20.0	10.89		ug/L		54	40 - 122	14	30
4-Nitroaniline	20.0	14.41		ug/L		72	42 - 125	4	30
4-Nitroquinoline-1-oxide	20.0	15.30		ug/L		76	20 - 130	0	30
7,12-Dimethylbenz(a)anthracene	20.0	13.37		ug/L		67	40 - 120	6	30
Acenaphthene	20.0	10.71		ug/L		54	41 - 116	8	30
Acenaphthylene	20.0	11.30		ug/L		57	41 - 118	13	30
Acetophenone	20.0	10.22		ug/L		51	23 - 175	2	30
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0		NC	30
Aniline	20.0	9.504		ug/L		48	31 - 100	11	30
Anthracene	20.0	12.48		ug/L		62	39 - 127	13	30
Benzo[a]anthracene	20.0	15.38		ug/L		77	40 - 129	2	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130871/3-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[a]pyrene	20.0	16.00		ug/L		80	36 - 141	4	30
Benzo[b]fluoranthene	20.0	14.99		ug/L		75	34 - 139	8	30
Benzo[g,h,i]perylene	20.0	16.36		ug/L		82	32 - 141	5	30
Benzo[k]fluoranthene	20.0	15.62		ug/L		78	31 - 139	7	30
Benzyl alcohol	20.0	11.12		ug/L		56	37 - 102	1	30
Bis(2-chloroethoxy)methane	20.0	10.43		ug/L		52	36 - 113	8	30
Bis(2-chloroethyl)ether	20.0	10.84		ug/L		54	38 - 111	4	30
Bis(2-ethylhexyl) phthalate	20.0	15.90		ug/L		79	44 - 136	4	30
Butyl benzyl phthalate	20.0	16.95		ug/L		85	44 - 133	1	30
Chrysene	20.0	14.95		ug/L		75	41 - 124	2	30
Dibenz(a,h)anthracene	20.0	16.35		ug/L		82	35 - 143	7	30
Dibenzofuran	20.0	11.00		ug/L		55	41 - 119	13	30
Diethyl phthalate	20.0	12.21		ug/L		61	41 - 125	13	30
Dimethyl phthalate	20.0	12.05		ug/L		60	42 - 123	13	30
Di-n-butyl phthalate	20.0	15.85		ug/L		79	41 - 133	0	30
Di-n-octyl phthalate	20.0	17.06		ug/L		85	34 - 145	2	30
Diphenyl ether	20.0	9.911		ug/L		50	40 - 130	7	30
Ethyl methanesulfonate	20.0	11.19		ug/L		56	40 - 127	5	30
Fluoranthene	20.0	14.59		ug/L		73	38 - 132	2	30
Fluorene	20.0	11.10		ug/L		56	41 - 121	13	30
Hexachlorobenzene	20.0	11.08		ug/L		55	39 - 128	11	30
Hexachlorobutadiene	20.0	9.692		ug/L		48	31 - 120	7	30
Hexachlorocyclopentadiene	20.0	11.44		ug/L		57	15 - 117	1	30
Hexachloroethane	20.0	9.725		ug/L		49	37 - 109	1	30
Hexachloropropene	20.0	9.151		ug/L		46	24 - 122	2	30
Indeno[1,2,3-cd]pyrene	20.0	16.40		ug/L		82	35 - 141	6	30
Isophorone	20.0	11.16		ug/L		56	40 - 115	10	30
Methyl methanesulfonate	20.0	9.763		ug/L		49	33 - 120	6	30
Naphthalene	20.0	9.979		ug/L		50	37 - 113	4	30
Nitrobenzene	20.0	10.62		ug/L		53	37 - 114	1	30
N-Nitro-o-toluidine	20.0	13.26		ug/L		66	40 - 120	15	30
N-Nitrosodiethylamine	20.0	11.08		ug/L		55	42 - 115	3	30
N-Nitrosodimethylamine	20.0	8.987		ug/L		45	28 - 126	0	30
N-Nitrosodi-n-butylamine	20.0	8.847		ug/L		44	34 - 122	10	30
N-Nitrosodi-n-propylamine	20.0	10.55		ug/L		53	38 - 117	6	30
N-Nitrosodiphenylamine	20.0	12.06		ug/L		60	40 - 127	12	30
N-Nitrosomethylethylamine	20.0	11.11		ug/L		56	41 - 108	2	30
N-Nitrosomorpholine	20.0	10.77		ug/L		54	32 - 115	6	30
N-Nitrosopiperidine	20.0	11.18		ug/L		56	39 - 115	6	30
N-Nitrosopyrrolidine	20.0	11.66		ug/L		58	36 - 121	5	30
p-Dimethylamino azobenzene	20.0	13.20		ug/L		66	38 - 124	1	30
Pentachlorobenzene	20.0	10.24		ug/L		51	40 - 123	9	30
Pentachloronitrobenzene	20.0	12.37		ug/L		62	40 - 120	9	30
Pentachlorophenol	20.0	12.97		ug/L		65	10 - 137	1	30
Phenacetin	20.0	14.21		ug/L		71	20 - 130	2	30
Phenanthrene	20.0	11.74		ug/L		59	39 - 126	10	30
Phenol	20.0	6.431		ug/L		32	15 - 106	1	30
p-Phenylene diamine	20.0	<10.0	U *-	ug/L		0	1 - 150	NC	30
Pronamide	20.0	15.36		ug/L		77	25 - 120	0	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130871/3-A

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pyrene	20.0	13.63		ug/L		68	40 - 130	3	30
Pyridine	20.0	5.281		ug/L		26	16 - 135	8	30
Safrole, Total	20.0	10.15		ug/L		51	40 - 120	7	30
Aramite Peak 2	10.0	6.922		ug/L		69	35 - 130	0	30
Isosafrole Peak 1	3.20	<2.46	U	ug/L		48	40 - 120	3	30
Diallate Peak 2	5.20	2.884	J	ug/L		55	38 - 130	13	30
Isosafrole Peak 2	16.8	8.901		ug/L		53	40 - 120	11	30
Diallate Peak 1	14.8	9.027		ug/L		61	38 - 130	13	30
Aramite Peak 1	10.0	6.924		ug/L		69	35 - 130	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	65		31 - 132
2-Fluorobiphenyl	58		40 - 130
2-Fluorophenol (Surr)	42		21 - 114
Nitrobenzene-d5 (Surr)	62		37 - 130
Phenol-d5 (Surr)	34		16 - 117
p-Terphenyl-d14	92		20 - 141

Lab Sample ID: 860-61028-H-17-B MS

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	<0.428	U	20.0	10.13		ug/L		51	41 - 117
1,2,4,5-Tetrachlorobenzene	<0.672	U	20.0	9.497		ug/L		47	39 - 120
1,2,4-Trichlorobenzene	<0.680	U	20.0	9.882		ug/L		49	34 - 117
1,2-Dichlorobenzene	<0.296	U	20.0	10.03		ug/L		50	38 - 111
1,3,5-Trinitrobenzene	<1.43	U F1 F2	20.0	13.22	F1	ug/L		66	70 - 130
1,3-Dichlorobenzene	<0.350	U	20.0	9.982		ug/L		50	37 - 111
1,3-Dinitrobenzene	<0.112	U	20.0	12.37		ug/L		62	36 - 131
1,4-Dichlorobenzene	<0.428	U	20.0	9.876		ug/L		49	37 - 111
1,4-Naphthoquinone	<1.85	U F1	20.0	13.29	F1	ug/L		66	70 - 130
1-Naphthylamine	<0.232	U F1	20.0	3.985	F1	ug/L		20	40 - 120
2,2'-oxybis[1-chloropropane]	<0.139	U	20.0	9.702		ug/L		49	32 - 110
2,3,4,6-Tetrachlorophenol	<0.174	U	20.0	12.93		ug/L		65	33 - 132
2,4,5-Trichlorophenol	<0.108	U	20.0	12.84		ug/L		64	39 - 125
2,4,6-Trichlorophenol	<0.135	U	20.0	11.73		ug/L		59	42 - 125
2,4-Dichlorophenol	<0.115	U	20.0	10.80		ug/L		54	38 - 120
2,4-Dimethylphenol	<0.148	U	20.0	13.02		ug/L		65	39 - 117
2,4-Dinitrophenol	<1.46	U	20.0	13.58		ug/L		68	13 - 152
2,4-Dinitrotoluene	<0.127	U	20.0	12.90		ug/L		64	41 - 128
2,6-Dichlorophenol	<0.126	U	20.0	10.44		ug/L		52	42 - 118
2,6-Dinitrotoluene	<0.199	U	20.0	12.03		ug/L		60	42 - 127
2-Acetylaminofluorene	<1.52	U F1 F2	20.0	11.04	F1	ug/L		55	70 - 130
2-Chloronaphthalene	<1.09	U	20.0	9.829		ug/L		49	40 - 118
2-Chlorophenol	<0.0135	U	20.0	10.60		ug/L		53	41 - 108
2-Methylnaphthalene	<0.480	U	20.0	10.44		ug/L		52	37 - 112
2-Methylphenol	<0.159	U	20.0	11.12		ug/L		56	36 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61028-H-17-B MS

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-Naphthylamine	<0.595	U F1	20.0	6.851	J F1	ug/L		34	40 - 120
2-Nitroaniline	<0.163	U	20.0	12.34		ug/L		62	34 - 126
2-Nitrophenol	<0.135	U	20.0	11.09		ug/L		55	38 - 125
2-Picoline	<0.215	U	20.0	5.853		ug/L		29	11 - 107
2-Toluidine	<0.934	U F1	20.0	8.595	F1	ug/L		43	70 - 130
3 & 4 Methylphenol	<0.163	U	20.0	10.79		ug/L		54	35 - 116
3,3'-Dichlorobenzidine	<0.220	U F2	20.0	6.844		ug/L		34	29 - 141
3,3'-Dimethylbenzidine	<0.444	U *- F1	20.0	1.671	J F1	ug/L		8	70 - 130
3-Methylcholanthrene	<0.159	U F2	20.0	11.75		ug/L		59	20 - 130
3-Nitroaniline	<0.344	U	20.0	10.06		ug/L		50	42 - 123
4,6-Dinitro-2-methylphenol	<0.736	U	20.0	12.92		ug/L		65	12 - 157
4-Aminobiphenyl	<0.297	U F2	20.0	7.127	J	ug/L		36	20 - 130
4-Bromophenyl phenyl ether	<0.167	U	20.0	11.07		ug/L		55	40 - 126
4-Chloro-3-methylphenol	<0.157	U	20.0	12.17		ug/L		61	40 - 119
4-Chloroaniline	<0.149	U	20.0	9.248		ug/L		46	39 - 111
4-Chlorophenyl phenyl ether	<0.232	U	20.0	10.85		ug/L		54	40 - 122
4-Nitroaniline	<0.247	U	20.0	9.267		ug/L		46	42 - 125
4-Nitroquinoline-1-oxide	<2.15	U F1 F2	20.0	12.11	F1	ug/L		61	70 - 130
7,12-Dimethylbenz(a)anthracene	<0.0610	U F2	20.0	10.07		ug/L		50	40 - 120
Acenaphthene	<0.208	U	20.0	10.84		ug/L		54	41 - 118
Acenaphthylene	<0.215	U	20.0	11.02		ug/L		55	41 - 116
Acetophenone	<0.225	U	20.0	10.12		ug/L		51	23 - 125
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	20.0	<4.00	U F1	ug/L		0	70 - 130
Aniline	<0.314	U	20.0	7.696		ug/L		38	31 - 120
Anthracene	<0.154	U	20.0	11.80		ug/L		59	39 - 127
Benzo[a]anthracene	<0.150	U F2	20.0	11.97		ug/L		60	40 - 129
Benzo[a]pyrene	<0.148	U F2	20.0	12.66		ug/L		63	36 - 141
Benzo[b]fluoranthene	<0.210	U F2	20.0	11.99		ug/L		60	34 - 139
Benzo[g,h,i]perylene	<0.143	U F2	20.0	12.48		ug/L		62	32 - 141
Benzo[k]fluoranthene	<0.166	U F2	20.0	12.27		ug/L		61	31 - 139
Benzyl alcohol	<4.50	U	20.0	11.57		ug/L		58	37 - 102
Bis(2-chloroethoxy)methane	<0.170	U	20.0	10.24		ug/L		51	36 - 113
Bis(2-chloroethyl)ether	<0.278	U	20.0	10.58		ug/L		53	38 - 111
Bis(2-ethylhexyl) phthalate	<0.225	U F2	20.0	11.95		ug/L		60	44 - 136
Butyl benzyl phthalate	<0.150	U F2	20.0	12.50		ug/L		63	44 - 133
Chrysene	<0.159	U F2	20.0	11.70		ug/L		58	41 - 124
Dibenz(a,h)anthracene	<0.148	U F2	20.0	12.87		ug/L		64	35 - 143
Dibenzofuran	<0.336	U	20.0	10.94		ug/L		55	41 - 119
Diethyl phthalate	<0.118	U	20.0	11.45		ug/L		57	41 - 125
Dimethyl phthalate	<0.143	U	20.0	11.71		ug/L		59	42 - 123
Di-n-butyl phthalate	<0.800	U F2	20.0	13.13		ug/L		66	41 - 133
Di-n-octyl phthalate	<0.169	U	20.0	13.86		ug/L		69	34 - 145
Diphenyl ether	<0.364	U	20.0	9.572		ug/L		48	
Ethyl methanesulfonate	<1.38	U F1	20.0	10.49	F1	ug/L		52	70 - 130
Fluoranthene	<0.148	U F2	20.0	12.47		ug/L		62	38 - 132
Fluorene	<0.205	U	20.0	11.11		ug/L		56	41 - 121
Hexachlorobenzene	<0.126	U	20.0	10.71		ug/L		54	39 - 128
Hexachlorobutadiene	<0.252	U	20.0	9.450		ug/L		47	31 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61028-H-17-B MS

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorocyclopentadiene	<0.431	U	20.0	11.43		ug/L		57	15 - 117
Hexachloroethane	<0.140	U	20.0	9.283		ug/L		46	37 - 109
Hexachloropropene	<0.213	U	20.0	9.193		ug/L		46	
Indeno[1,2,3-cd]pyrene	<0.852	U F2	20.0	12.79		ug/L		64	35 - 141
Isophorone	<0.168	U	20.0	10.87		ug/L		54	40 - 115
Methyl methanesulfonate	<0.0610	U F1	20.0	9.250	F1	ug/L		46	70 - 130
Naphthalene	<0.423	U	20.0	10.36		ug/L		52	37 - 113
Nitrobenzene	<0.934	U	20.0	12.03		ug/L		60	37 - 114
N-Nitro-o-toluidine	<1.31	U	20.0	10.85		ug/L		54	35 - 130
N-Nitrosodiethylamine	<1.54	U F1	20.0	10.80	F1	ug/L		54	70 - 130
N-Nitrosodimethylamine	<0.126	U	20.0	9.118		ug/L		46	28 - 127
N-Nitrosodi-n-butylamine	<1.54	U	20.0	9.076		ug/L		45	34 - 122
N-Nitrosodi-n-propylamine	<0.161	U	20.0	10.31		ug/L		52	38 - 117
N-Nitrosodiphenylamine	<0.155	U	20.0	12.20		ug/L		61	40 - 127
N-Nitrosomethylethylamine	<0.199	U	20.0	10.77		ug/L		54	28 - 126
N-Nitrosomorpholine	<1.44	U F1	20.0	10.75	F1	ug/L		54	70 - 130
N-Nitrosopiperidine	<1.44	U	20.0	10.83		ug/L		54	39 - 115
N-Nitrosopyrrolidine	<1.38	U	20.0	11.48		ug/L		57	36 - 121
p-Dimethylamino azobenzene	<0.0579	U F2	20.0	10.25		ug/L		51	38 - 124
Pentachlorobenzene	<1.18	U	20.0	10.01		ug/L		50	40 - 123
Pentachloronitrobenzene	<1.27	U	20.0	11.18		ug/L		56	40 - 120
Pentachlorophenol	<0.441	U	20.0	12.24		ug/L		61	10 - 137
Phenacetin	<1.32	U F2	20.0	11.73		ug/L		59	20 - 130
Phenanthrene	<0.176	U	20.0	11.43		ug/L		57	39 - 126
Phenol	<0.202	U	20.0	8.435		ug/L		42	15 - 106
p-Phenylene diamine	<10.0	U *- F1	20.0	<10.0	U F1	ug/L		0	1 - 150
Pronamide	<1.39	U F2	20.0	12.52		ug/L		63	25 - 120
Pyrene	<0.159	U F2	20.0	11.43		ug/L		57	40 - 130
Pyridine	<0.725	U	20.0	4.929		ug/L		25	16 - 135
Safrole, Total	<0.183	U F1	20.0	9.747	F1	ug/L		49	70 - 130
Aramite Peak 2	<2.74	U F2	10.0	5.486		ug/L		55	
Isosafrole Peak 1	<2.46	U F1	3.20	<2.46	U F1	ug/L		0	70 - 130
Diallate Peak 2	<0.602	U F1	5.20	2.985	J F1	ug/L		57	70 - 130
Isosafrole Peak 2	<2.12	U F1	16.8	8.448	F1	ug/L		50	70 - 130
Diallate Peak 1	<0.675	U F1	14.8	8.867	F1	ug/L		60	70 - 130
Aramite Peak 1	<0.670	U F2	10.0	5.698		ug/L		57	

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	61		31 - 132
2-Fluorobiphenyl	58		40 - 130
2-Fluorophenol (Surr)	43		21 - 114
Nitrobenzene-d5 (Surr)	60		37 - 130
Phenol-d5 (Surr)	42		16 - 117
p-Terphenyl-d14	71		20 - 141

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61028-H-17-C MSD

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	<0.428	U	20.0	10.22		ug/L		51	41 - 117	1	30
1,2,4,5-Tetrachlorobenzene	<0.672	U	20.0	9.793		ug/L		49	39 - 120	3	30
1,2,4-Trichlorobenzene	<0.680	U	20.0	9.806		ug/L		49	34 - 117	1	30
1,2-Dichlorobenzene	<0.296	U	20.0	10.60		ug/L		53	38 - 111	5	30
1,3,5-Trinitrobenzene	<1.43	U F1 F2	20.0	18.30	F2	ug/L		91	70 - 130	32	30
1,3-Dichlorobenzene	<0.350	U	20.0	9.916		ug/L		50	37 - 111	1	30
1,3-Dinitrobenzene	<0.112	U	20.0	12.77		ug/L		64	36 - 131	3	30
1,4-Dichlorobenzene	<0.428	U	20.0	9.981		ug/L		50	37 - 111	1	30
1,4-Naphthoquinone	<1.85	U F1	20.0	13.31	F1	ug/L		67	70 - 130	0	30
1-Naphthylamine	<0.232	U F1	20.0	4.817	F1	ug/L		24	40 - 120	19	30
2,2'-oxybis[1-chloropropane]	<0.139	U	20.0	9.927		ug/L		50	32 - 110	2	30
2,3,4,6-Tetrachlorophenol	<0.174	U	20.0	14.35		ug/L		72	33 - 132	10	30
2,4,5-Trichlorophenol	<0.108	U	20.0	12.47		ug/L		62	39 - 125	3	30
2,4,6-Trichlorophenol	<0.135	U	20.0	12.05		ug/L		60	42 - 125	3	30
2,4-Dichlorophenol	<0.115	U	20.0	10.42		ug/L		52	38 - 120	4	30
2,4-Dimethylphenol	<0.148	U	20.0	13.16		ug/L		66	39 - 117	1	30
2,4-Dinitrophenol	<1.46	U	20.0	15.29		ug/L		76	13 - 152	12	30
2,4-Dinitrotoluene	<0.127	U	20.0	13.82		ug/L		69	41 - 128	7	30
2,6-Dichlorophenol	<0.126	U	20.0	10.33		ug/L		52	42 - 118	1	30
2,6-Dinitrotoluene	<0.199	U	20.0	12.59		ug/L		63	42 - 127	5	30
2-Acetylaminofluorene	<1.52	U F1 F2	20.0	16.46	F2	ug/L		82	70 - 130	39	30
2-Chloronaphthalene	<1.09	U	20.0	9.683		ug/L		48	40 - 118	1	30
2-Chlorophenol	<0.0135	U	20.0	10.61		ug/L		53	41 - 108	0	30
2-Methylnaphthalene	<0.480	U	20.0	10.18		ug/L		51	37 - 112	3	30
2-Methylphenol	<0.159	U	20.0	11.94		ug/L		60	36 - 125	7	30
2-Naphthylamine	<0.595	U F1	20.0	7.828	J F1	ug/L		39	40 - 120	13	30
2-Nitroaniline	<0.163	U	20.0	12.31		ug/L		62	34 - 126	0	30
2-Nitrophenol	<0.135	U	20.0	11.39		ug/L		57	38 - 125	3	30
2-Picoline	<0.215	U	20.0	5.582		ug/L		28	11 - 107	5	30
2-Toluidine	<0.934	U F1	20.0	7.795	J F1	ug/L		39	70 - 130	10	30
3 & 4 Methylphenol	<0.163	U	20.0	11.13		ug/L		56	35 - 116	3	30
3,3'-Dichlorobenzidine	<0.220	U F2	20.0	10.23	F2	ug/L		51	29 - 141	40	30
3,3'-Dimethylbenzidine	<0.444	U *- F1	20.0	2.140	J F1	ug/L		11	70 - 130	25	30
3-Methylcholanthrene	<0.159	U F2	20.0	17.21	F2	ug/L		86	20 - 130	38	30
3-Nitroaniline	<0.344	U	20.0	11.09		ug/L		55	42 - 123	10	30
4,6-Dinitro-2-methylphenol	<0.736	U	20.0	15.27		ug/L		76	12 - 157	17	30
4-Aminobiphenyl	<0.297	U F2	20.0	10.32	F2	ug/L		52	20 - 130	37	30
4-Bromophenyl phenyl ether	<0.167	U	20.0	11.47		ug/L		57	40 - 126	3	30
4-Chloro-3-methylphenol	<0.157	U	20.0	12.05		ug/L		60	40 - 119	1	30
4-Chloroaniline	<0.149	U	20.0	9.347		ug/L		47	39 - 111	1	30
4-Chlorophenyl phenyl ether	<0.232	U	20.0	10.95		ug/L		55	40 - 122	1	30
4-Nitroaniline	<0.247	U	20.0	11.80		ug/L		59	42 - 125	24	30
4-Nitroquinoline-1-oxide	<2.15	U F1 F2	20.0	18.81	F2	ug/L		94	70 - 130	43	30
7,12-Dimethylbenz(a)anthracene	<0.0610	U F2	20.0	15.27	F2	ug/L		76	40 - 120	41	30
Acenaphthene	<0.208	U	20.0	11.00		ug/L		55	41 - 118	1	30
Acenaphthylene	<0.215	U	20.0	11.14		ug/L		56	41 - 116	1	30
Acetophenone	<0.225	U	20.0	10.44		ug/L		52	23 - 125	3	30
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	20.0	<4.00	U F1	ug/L		0	70 - 130	NC	

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61028-H-17-C MSD

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aniline	<0.314	U	20.0	7.242		ug/L		36	31 - 120	6	30
Anthracene	<0.154	U	20.0	13.14		ug/L		66	39 - 127	11	30
Benzo[a]anthracene	<0.150	U F2	20.0	17.41	F2	ug/L		87	40 - 129	37	30
Benzo[a]pyrene	<0.148	U F2	20.0	18.31	F2	ug/L		92	36 - 141	37	30
Benzo[b]fluoranthene	<0.210	U F2	20.0	16.99	F2	ug/L		85	34 - 139	34	30
Benzo[g,h,i]perylene	<0.143	U F2	20.0	18.44	F2	ug/L		92	32 - 141	39	30
Benzo[k]fluoranthene	<0.166	U F2	20.0	17.73	F2	ug/L		89	31 - 139	36	30
Benzyl alcohol	<4.50	U	20.0	11.36		ug/L		57	37 - 102	2	30
Bis(2-chloroethoxy)methane	<0.170	U	20.0	10.18		ug/L		51	36 - 113	1	30
Bis(2-chloroethyl)ether	<0.278	U	20.0	10.48		ug/L		52	38 - 111	1	30
Bis(2-ethylhexyl) phthalate	<0.225	U F2	20.0	17.88	F2	ug/L		89	44 - 136	40	30
Butyl benzyl phthalate	<0.150	U F2	20.0	19.33	F2	ug/L		97	44 - 133	43	30
Chrysene	<0.159	U F2	20.0	17.12	F2	ug/L		86	41 - 124	38	30
Dibenz(a,h)anthracene	<0.148	U F2	20.0	19.32	F2	ug/L		97	35 - 143	40	30
Dibenzofuran	<0.336	U	20.0	10.82		ug/L		54	41 - 119	1	30
Diethyl phthalate	<0.118	U	20.0	12.16		ug/L		61	41 - 125	6	30
Dimethyl phthalate	<0.143	U	20.0	12.13		ug/L		61	42 - 123	4	30
Di-n-butyl phthalate	<0.800	U F2	20.0	19.37	F2	ug/L		97	41 - 133	38	30
Di-n-octyl phthalate	<0.169	U	20.0	18.79		ug/L		94	34 - 145	30	30
Diphenyl ether	<0.364	U	20.0	9.697		ug/L		48		1	30
Ethyl methanesulfonate	<1.38	U F1	20.0	10.69	F1	ug/L		53	70 - 130	2	30
Fluoranthene	<0.148	U F2	20.0	17.48	F2	ug/L		87	38 - 132	33	30
Fluorene	<0.205	U	20.0	11.21		ug/L		56	41 - 121	1	30
Hexachlorobenzene	<0.126	U	20.0	11.73		ug/L		59	39 - 128	9	30
Hexachlorobutadiene	<0.252	U	20.0	9.441		ug/L		47	31 - 120	0	30
Hexachlorocyclopentadiene	<0.431	U	20.0	11.95		ug/L		60	15 - 117	4	30
Hexachloroethane	<0.140	U	20.0	9.991		ug/L		50	37 - 109	7	30
Hexachloropropene	<0.213	U	20.0	9.306		ug/L		47		1	30
Indeno[1,2,3-cd]pyrene	<0.852	U F2	20.0	19.05	F2	ug/L		95	35 - 141	39	30
Isophorone	<0.168	U	20.0	10.73		ug/L		54	40 - 115	1	30
Methyl methanesulfonate	<0.0610	U F1	20.0	9.710	F1	ug/L		49	70 - 130	5	30
Naphthalene	<0.423	U	20.0	10.37		ug/L		52	37 - 113	0	30
Nitrobenzene	<0.934	U	20.0	11.56		ug/L		58	37 - 114	4	30
N-Nitro-o-toluidine	<1.31	U	20.0	12.86		ug/L		64	35 - 130	17	30
N-Nitrosodiethylamine	<1.54	U F1	20.0	11.19	F1	ug/L		56	70 - 130	4	30
N-Nitrosodimethylamine	<0.126	U	20.0	8.922		ug/L		45	28 - 127	2	30
N-Nitrosodi-n-butylamine	<1.54	U	20.0	8.965		ug/L		45	34 - 122	1	30
N-Nitrosodi-n-propylamine	<0.161	U	20.0	10.93		ug/L		55	38 - 117	6	30
N-Nitrosodiphenylamine	<0.155	U	20.0	13.97		ug/L		70	40 - 127	13	30
N-Nitrosomethylethylamine	<0.199	U	20.0	10.93		ug/L		55	28 - 126	2	30
N-Nitrosomorpholine	<1.44	U F1	20.0	11.19	F1	ug/L		56	70 - 130	4	30
N-Nitrosopiperidine	<1.44	U	20.0	10.86		ug/L		54	39 - 115	0	30
N-Nitrosopyrrolidine	<1.38	U	20.0	11.63		ug/L		58	36 - 121	1	30
p-Dimethylamino azobenzene	<0.0579	U F2	20.0	15.55	F2	ug/L		78	38 - 124	41	30
Pentachlorobenzene	<1.18	U	20.0	10.22		ug/L		51	40 - 123	2	30
Pentachloronitrobenzene	<1.27	U	20.0	13.50		ug/L		67	40 - 120	19	30
Pentachlorophenol	<0.441	U	20.0	16.51		ug/L		83	10 - 137	30	30
Phenacetin	<1.32	U F2	20.0	16.88	F2	ug/L		84	20 - 130	36	30
Phenanthrene	<0.176	U	20.0	12.50		ug/L		63	39 - 126	9	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61028-H-17-C MSD

Matrix: Water

Analysis Batch: 131054

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 130871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol	<0.202	U	20.0	8.472		ug/L		42	15 - 106	0	30
p-Phenylene diamine	<10.0	U *- F1	20.0	<10.0	U F1	ug/L		0	1 - 150	NC	50
Pronamide	<1.39	U F2	20.0	18.18	F2	ug/L		91	25 - 120	37	30
Pyrene	<0.159	U F2	20.0	16.29	F2	ug/L		81	40 - 130	35	30
Pyridine	<0.725	U	20.0	4.714		ug/L		24	16 - 135	4	30
Safrole, Total	<0.183	U F1	20.0	10.33	F1	ug/L		52	70 - 130	6	30
Aramite Peak 2	<2.74	U F2	10.0	8.204	F2	ug/L		82		40	30
Isosafrole Peak 1	<2.46	U F1	3.20	<2.46	U F1	ug/L		0	70 - 130	NC	30
Diallate Peak 2	<0.602	U F1	5.20	3.155	J F1	ug/L		61	70 - 130	6	30
Isosafrole Peak 2	<2.12	U F1	16.8	8.522	F1	ug/L		51	70 - 130	1	30
Diallate Peak 1	<0.675	U F1	14.8	9.527	F1	ug/L		64	70 - 130	7	30
Aramite Peak 1	<0.670	U F2	10.0	8.234	F2	ug/L		82		36	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2,4,6-Tribromophenol (Surr)	68		31 - 132
2-Fluorobiphenyl	57		40 - 130
2-Fluorophenol (Surr)	47		21 - 114
Nitrobenzene-d5 (Surr)	62		37 - 130
Phenol-d5 (Surr)	41		16 - 117
p-Terphenyl-d14	103		20 - 141

Lab Sample ID: MB 860-130968/1-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/14/23 12:29	11/15/23 10:00	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/14/23 12:29	11/15/23 10:00	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/14/23 12:29	11/15/23 10:00	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/14/23 12:29	11/15/23 10:00	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/14/23 12:29	11/15/23 10:00	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/14/23 12:29	11/15/23 10:00	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/14/23 12:29	11/15/23 10:00	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/14/23 12:29	11/15/23 10:00	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/14/23 12:29	11/15/23 10:00	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/14/23 12:29	11/15/23 10:00	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/14/23 12:29	11/15/23 10:00	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130968/1-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/14/23 12:29	11/15/23 10:00	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/14/23 12:29	11/15/23 10:00	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/14/23 12:29	11/15/23 10:00	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/14/23 12:29	11/15/23 10:00	1
3,3'-Dimethylbenzidine	<0.444	U	8.00	0.444	ug/L		11/14/23 12:29	11/15/23 10:00	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/14/23 12:29	11/15/23 10:00	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/14/23 12:29	11/15/23 10:00	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/14/23 12:29	11/15/23 10:00	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/14/23 12:29	11/15/23 10:00	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/14/23 12:29	11/15/23 10:00	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/14/23 12:29	11/15/23 10:00	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/14/23 12:29	11/15/23 10:00	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/14/23 12:29	11/15/23 10:00	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/14/23 12:29	11/15/23 10:00	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/14/23 12:29	11/15/23 10:00	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/14/23 12:29	11/15/23 10:00	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/14/23 12:29	11/15/23 10:00	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/14/23 12:29	11/15/23 10:00	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/14/23 12:29	11/15/23 10:00	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/14/23 12:29	11/15/23 10:00	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/14/23 12:29	11/15/23 10:00	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/14/23 12:29	11/15/23 10:00	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/14/23 12:29	11/15/23 10:00	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/14/23 12:29	11/15/23 10:00	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 10:00	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/14/23 12:29	11/15/23 10:00	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/14/23 12:29	11/15/23 10:00	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/14/23 12:29	11/15/23 10:00	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/14/23 12:29	11/15/23 10:00	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/14/23 12:29	11/15/23 10:00	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/14/23 12:29	11/15/23 10:00	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/14/23 12:29	11/15/23 10:00	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/14/23 12:29	11/15/23 10:00	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/14/23 12:29	11/15/23 10:00	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/14/23 12:29	11/15/23 10:00	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 10:00	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/14/23 12:29	11/15/23 10:00	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/14/23 12:29	11/15/23 10:00	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/14/23 12:29	11/15/23 10:00	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/14/23 12:29	11/15/23 10:00	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/14/23 12:29	11/15/23 10:00	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/14/23 12:29	11/15/23 10:00	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/14/23 12:29	11/15/23 10:00	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130968/1-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/14/23 12:29	11/15/23 10:00	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/14/23 12:29	11/15/23 10:00	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/14/23 12:29	11/15/23 10:00	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/14/23 12:29	11/15/23 10:00	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/14/23 12:29	11/15/23 10:00	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/14/23 12:29	11/15/23 10:00	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/14/23 12:29	11/15/23 10:00	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/14/23 12:29	11/15/23 10:00	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/14/23 12:29	11/15/23 10:00	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/14/23 12:29	11/15/23 10:00	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/14/23 12:29	11/15/23 10:00	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/14/23 12:29	11/15/23 10:00	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/14/23 12:29	11/15/23 10:00	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/14/23 12:29	11/15/23 10:00	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/14/23 12:29	11/15/23 10:00	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/14/23 12:29	11/15/23 10:00	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/14/23 12:29	11/15/23 10:00	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/14/23 12:29	11/15/23 10:00	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/14/23 12:29	11/15/23 10:00	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/14/23 12:29	11/15/23 10:00	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/14/23 12:29	11/15/23 10:00	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/14/23 12:29	11/15/23 10:00	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/14/23 12:29	11/15/23 10:00	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/14/23 12:29	11/15/23 10:00	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/14/23 12:29	11/15/23 10:00	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/14/23 12:29	11/15/23 10:00	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/14/23 12:29	11/15/23 10:00	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/14/23 12:29	11/15/23 10:00	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/14/23 12:29	11/15/23 10:00	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/14/23 12:29	11/15/23 10:00	1
p-Phenylene diamine	<10.0	U	10.0	10.0	ug/L		11/14/23 12:29	11/15/23 10:00	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/14/23 12:29	11/15/23 10:00	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/14/23 12:29	11/15/23 10:00	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/14/23 12:29	11/15/23 10:00	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/14/23 12:29	11/15/23 10:00	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/14/23 12:29	11/15/23 10:00	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/14/23 12:29	11/15/23 10:00	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/14/23 12:29	11/15/23 10:00	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/14/23 12:29	11/15/23 10:00	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/14/23 12:29	11/15/23 10:00	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-130968/1-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/14/23 12:29	11/15/23 10:00	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/14/23 12:29	11/15/23 10:00	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/14/23 12:29	11/15/23 10:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	55		31 - 132	11/14/23 12:29	11/15/23 10:00	1
2-Fluorobiphenyl	70		40 - 130	11/14/23 12:29	11/15/23 10:00	1
2-Fluorophenol (Surr)	51		21 - 114	11/14/23 12:29	11/15/23 10:00	1
Nitrobenzene-d5 (Surr)	67		37 - 130	11/14/23 12:29	11/15/23 10:00	1
Phenol-d5 (Surr)	38		16 - 117	11/14/23 12:29	11/15/23 10:00	1
p-Terphenyl-d14	101		20 - 141	11/14/23 12:29	11/15/23 10:00	1

Lab Sample ID: LCS 860-130968/2-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	20.0	12.30		ug/L		62	41 - 117
1,2,4,5-Tetrachlorobenzene	20.0	12.38		ug/L		62	39 - 120
1,2,4-Trichlorobenzene	20.0	11.35		ug/L		57	34 - 117
1,2-Dichlorobenzene	20.0	11.99		ug/L		60	38 - 111
1,3,5-Trinitrobenzene	20.0	13.04		ug/L		65	35 - 128
1,3-Dichlorobenzene	20.0	12.23		ug/L		61	37 - 111
1,3-Dinitrobenzene	20.0	12.35		ug/L		62	36 - 131
1,4-Dichlorobenzene	20.0	11.77		ug/L		59	37 - 111
1,4-Naphthoquinone	20.0	13.17		ug/L		66	10 - 150
1-Naphthylamine	20.0	10.12		ug/L		51	40 - 120
2,2'-oxybis[1-chloropropane]	20.0	12.40		ug/L		62	10 - 150
2,3,4,6-Tetrachlorophenol	20.0	13.35		ug/L		67	33 - 132
2,4,5-Trichlorophenol	20.0	13.62		ug/L		68	39 - 125
2,4,6-Trichlorophenol	20.0	13.31		ug/L		67	42 - 125
2,4-Dichlorophenol	20.0	11.86		ug/L		59	38 - 120
2,4-Dimethylphenol	20.0	14.23		ug/L		71	39 - 117
2,4-Dinitrophenol	20.0	11.41		ug/L		57	13 - 152
2,4-Dinitrotoluene	20.0	12.94		ug/L		65	41 - 128
2,6-Dichlorophenol	20.0	11.69		ug/L		58	42 - 118
2,6-Dinitrotoluene	20.0	12.74		ug/L		64	42 - 127
2-Acetylaminofluorene	20.0	11.49		ug/L		57	40 - 130
2-Chloronaphthalene	20.0	11.77		ug/L		59	40 - 118
2-Chlorophenol	20.0	11.60		ug/L		58	41 - 108
2-Methylnaphthalene	20.0	11.48		ug/L		57	37 - 112
2-Methylphenol	20.0	11.02		ug/L		55	36 - 125
2-Naphthylamine	20.0	9.610		ug/L		48	40 - 120
2-Nitroaniline	20.0	13.51		ug/L		68	34 - 126
2-Nitrophenol	20.0	11.21		ug/L		56	38 - 125
2-Picoline	20.0	4.987		ug/L		25	11 - 107
2-Toluidine	20.0	9.092		ug/L		45	38 - 124
3 & 4 Methylphenol	20.0	10.46		ug/L		52	35 - 116

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130968/2-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3,3'-Dichlorobenzidine	20.0	13.55		ug/L		68	29 - 141
3,3'-Dimethylbenzidine	20.0	3.081	J *	ug/L		15	40 - 130
3-Methylcholanthrene	20.0	14.14		ug/L		71	20 - 130
3-Nitroaniline	20.0	13.27		ug/L		66	42 - 123
4,6-Dinitro-2-methylphenol	20.0	12.46		ug/L		62	12 - 157
4-Aminobiphenyl	20.0	9.707		ug/L		49	20 - 130
4-Bromophenyl phenyl ether	20.0	13.46		ug/L		67	40 - 126
4-Chloro-3-methylphenol	20.0	11.21		ug/L		56	40 - 119
4-Chloroaniline	20.0	10.08		ug/L		50	39 - 111
4-Chlorophenyl phenyl ether	20.0	12.90		ug/L		65	40 - 122
4-Nitroaniline	20.0	13.90		ug/L		69	42 - 125
4-Nitroquinoline-1-oxide	20.0	13.31		ug/L		67	20 - 130
7,12-Dimethylbenz(a)anthracene	20.0	12.17		ug/L		61	40 - 120
Acenaphthene	20.0	12.84		ug/L		64	41 - 116
Acenaphthylene	20.0	13.03		ug/L		65	41 - 118
Acetophenone	20.0	11.50		ug/L		58	23 - 175
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		4	
Aniline	20.0	7.764		ug/L		39	31 - 100
Anthracene	20.0	13.97		ug/L		70	39 - 127
Benzo[a]anthracene	20.0	14.45		ug/L		72	40 - 129
Benzo[a]pyrene	20.0	14.89		ug/L		74	36 - 141
Benzo[b]fluoranthene	20.0	14.55		ug/L		73	34 - 139
Benzo[g,h,i]perylene	20.0	16.97		ug/L		85	32 - 141
Benzo[k]fluoranthene	20.0	14.23		ug/L		71	31 - 139
Benzyl alcohol	20.0	11.42		ug/L		57	37 - 102
Bis(2-chloroethoxy)methane	20.0	12.13		ug/L		61	36 - 113
Bis(2-chloroethyl)ether	20.0	12.44		ug/L		62	38 - 111
Bis(2-ethylhexyl) phthalate	20.0	12.28		ug/L		61	44 - 136
Butyl benzyl phthalate	20.0	13.10		ug/L		65	44 - 133
Chrysene	20.0	14.59		ug/L		73	41 - 124
Dibenz(a,h)anthracene	20.0	16.67		ug/L		83	35 - 143
Dibenzofuran	20.0	12.94		ug/L		65	41 - 119
Diethyl phthalate	20.0	12.74		ug/L		64	41 - 125
Dimethyl phthalate	20.0	13.43		ug/L		67	42 - 123
Di-n-butyl phthalate	20.0	13.77		ug/L		69	41 - 133
Di-n-octyl phthalate	20.0	12.94		ug/L		65	34 - 145
Diphenyl ether	20.0	12.06		ug/L		60	40 - 130
Ethyl methanesulfonate	20.0	12.15		ug/L		61	40 - 127
Fluoranthene	20.0	14.49		ug/L		72	38 - 132
Fluorene	20.0	12.71		ug/L		64	41 - 121
Hexachlorobenzene	20.0	13.78		ug/L		69	39 - 128
Hexachlorobutadiene	20.0	11.78		ug/L		59	31 - 120
Hexachlorocyclopentadiene	20.0	14.77		ug/L		74	15 - 117
Hexachloroethane	20.0	11.74		ug/L		59	37 - 109
Hexachloropropene	20.0	10.51		ug/L		53	24 - 122
Indeno[1,2,3-cd]pyrene	20.0	16.87		ug/L		84	35 - 141
Isophorone	20.0	12.14		ug/L		61	40 - 115
Methyl methanesulfonate	20.0	10.94		ug/L		55	33 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-130968/2-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	20.0	11.58		ug/L		58	37 - 113
Nitrobenzene	20.0	12.20		ug/L		61	37 - 114
N-Nitro-o-toluidine	20.0	12.38		ug/L		62	40 - 120
N-Nitrosodiethylamine	20.0	11.86		ug/L		59	42 - 115
N-Nitrosodimethylamine	20.0	11.03		ug/L		55	28 - 126
N-Nitrosodi-n-butylamine	20.0	9.509		ug/L		48	34 - 122
N-Nitrosodi-n-propylamine	20.0	12.22		ug/L		61	38 - 117
N-Nitrosodiphenylamine	20.0	14.10		ug/L		71	40 - 127
N-Nitrosomethylethylamine	20.0	12.48		ug/L		62	41 - 108
N-Nitrosomorpholine	20.0	11.99		ug/L		60	32 - 115
N-Nitrosopiperidine	20.0	11.55		ug/L		58	39 - 115
N-Nitrosopyrrolidine	20.0	11.72		ug/L		59	36 - 121
p-Dimethylamino azobenzene	20.0	10.93		ug/L		55	38 - 124
Pentachlorobenzene	20.0	12.74		ug/L		64	40 - 123
Pentachloronitrobenzene	20.0	12.26		ug/L		61	40 - 120
Pentachlorophenol	20.0	11.96		ug/L		60	10 - 137
Phenacetin	20.0	12.51		ug/L		63	20 - 130
Phenanthrene	20.0	14.11		ug/L		71	39 - 126
Phenol	20.0	7.612		ug/L		38	15 - 106
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150
Pronamide	20.0	14.00		ug/L		70	25 - 120
Pyrene	20.0	13.20		ug/L		66	40 - 130
Pyridine	20.0	4.878		ug/L		24	16 - 135
Safrole, Total	20.0	12.18		ug/L		61	40 - 120
Aramite Peak 2	10.0	5.057		ug/L		51	35 - 130
Isosafrole Peak 1	3.20	<2.46	U	ug/L		58	40 - 120
Diallate Peak 2	5.20	3.368	J	ug/L		65	38 - 130
Isosafrole Peak 2	16.8	10.43		ug/L		62	40 - 120
Diallate Peak 1	14.8	10.38		ug/L		70	38 - 130
Aramite Peak 1	10.0	4.875		ug/L		49	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	72		31 - 132
2-Fluorobiphenyl	72		40 - 130
2-Fluorophenol (Surr)	50		21 - 114
Nitrobenzene-d5 (Surr)	67		37 - 130
Phenol-d5 (Surr)	41		16 - 117
p-Terphenyl-d14	85		20 - 141

Lab Sample ID: LCSD 860-130968/3-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130968

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	20.0	13.99		ug/L		70	41 - 117	13	30
1,2,4,5-Tetrachlorobenzene	20.0	13.46		ug/L		67	39 - 120	8	30
1,2,4-Trichlorobenzene	20.0	13.12		ug/L		66	34 - 117	14	30
1,2-Dichlorobenzene	20.0	13.58		ug/L		68	38 - 111	12	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130968/3-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130968

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene	20.0	15.94		ug/L		80	35 - 128	20	30
1,3-Dichlorobenzene	20.0	13.12		ug/L		66	37 - 111	7	30
1,3-Dinitrobenzene	20.0	14.70		ug/L		74	36 - 131	17	30
1,4-Dichlorobenzene	20.0	13.43		ug/L		67	37 - 111	13	30
1,4-Naphthoquinone	20.0	15.73		ug/L		79	10 - 150	18	30
1-Naphthylamine	20.0	12.09		ug/L		60	40 - 120	18	30
2,2'-oxybis[1-chloropropane]	20.0	13.90		ug/L		70	10 - 150	11	30
2,3,4,6-Tetrachlorophenol	20.0	15.72		ug/L		79	33 - 132	16	30
2,4,5-Trichlorophenol	20.0	16.01		ug/L		80	39 - 125	16	30
2,4,6-Trichlorophenol	20.0	15.64		ug/L		78	42 - 125	16	30
2,4-Dichlorophenol	20.0	14.02		ug/L		70	38 - 120	17	30
2,4-Dimethylphenol	20.0	16.12		ug/L		81	39 - 117	12	30
2,4-Dinitrophenol	20.0	15.16		ug/L		76	13 - 152	28	30
2,4-Dinitrotoluene	20.0	15.87		ug/L		79	41 - 128	20	30
2,6-Dichlorophenol	20.0	13.68		ug/L		68	42 - 118	16	30
2,6-Dinitrotoluene	20.0	15.69		ug/L		78	42 - 127	21	30
2-Acetylaminofluorene	20.0	13.73		ug/L		69	40 - 130	18	30
2-Chloronaphthalene	20.0	14.54		ug/L		73	40 - 118	21	30
2-Chlorophenol	20.0	13.17		ug/L		66	41 - 108	13	30
2-Methylnaphthalene	20.0	13.16		ug/L		66	37 - 112	14	30
2-Methylphenol	20.0	12.59		ug/L		63	36 - 125	13	30
2-Naphthylamine	20.0	11.49		ug/L		57	40 - 120	18	30
2-Nitroaniline	20.0	15.78		ug/L		79	34 - 126	16	30
2-Nitrophenol	20.0	13.72		ug/L		69	38 - 125	20	30
2-Picoline	20.0	5.587		ug/L		28	11 - 107	11	30
2-Toluidine	20.0	10.56		ug/L		53	38 - 124	15	30
3 & 4 Methylphenol	20.0	12.12		ug/L		61	35 - 116	15	30
3,3'-Dichlorobenzidine	20.0	15.95		ug/L		80	29 - 141	16	30
3,3'-Dimethylbenzidine	20.0	3.891	J *	ug/L		19	40 - 130	23	30
3-Methylcholanthrene	20.0	17.04		ug/L		85	20 - 130	19	30
3-Nitroaniline	20.0	15.29		ug/L		76	42 - 123	14	30
4,6-Dinitro-2-methylphenol	20.0	15.72		ug/L		79	12 - 157	23	30
4-Aminobiphenyl	20.0	12.13		ug/L		61	20 - 130	22	30
4-Bromophenyl phenyl ether	20.0	15.35		ug/L		77	40 - 126	13	30
4-Chloro-3-methylphenol	20.0	13.34		ug/L		67	40 - 119	17	30
4-Chloroaniline	20.0	12.05		ug/L		60	39 - 111	18	30
4-Chlorophenyl phenyl ether	20.0	14.81		ug/L		74	40 - 122	14	30
4-Nitroaniline	20.0	16.43		ug/L		82	42 - 125	17	30
4-Nitroquinoline-1-oxide	20.0	16.37		ug/L		82	20 - 130	21	30
7,12-Dimethylbenz(a)anthracene	20.0	14.36		ug/L		72	40 - 120	16	30
Acenaphthene	20.0	14.42		ug/L		72	41 - 116	12	30
Acenaphthylene	20.0	15.13		ug/L		76	41 - 118	15	30
Acetophenone	20.0	13.00		ug/L		65	23 - 175	12	30
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		4		7	30
Aniline	20.0	8.865		ug/L		44	31 - 100	13	30
Anthracene	20.0	16.24		ug/L		81	39 - 127	15	30
Benzo[a]anthracene	20.0	16.16		ug/L		81	40 - 129	11	30
Benzo[a]pyrene	20.0	17.33		ug/L		87	36 - 141	15	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130968/3-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130968

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[b]fluoranthene	20.0	17.11		ug/L		86	34 - 139	16	30
Benzo[g,h,i]perylene	20.0	19.48		ug/L		97	32 - 141	14	30
Benzo[k]fluoranthene	20.0	15.89		ug/L		79	31 - 139	11	30
Benzyl alcohol	20.0	12.99		ug/L		65	37 - 102	13	30
Bis(2-chloroethoxy)methane	20.0	13.55		ug/L		68	36 - 113	11	30
Bis(2-chloroethyl)ether	20.0	13.96		ug/L		70	38 - 111	12	30
Bis(2-ethylhexyl) phthalate	20.0	14.19		ug/L		71	44 - 136	14	30
Butyl benzyl phthalate	20.0	14.65		ug/L		73	44 - 133	11	30
Chrysene	20.0	16.44		ug/L		82	41 - 124	12	30
Dibenz(a,h)anthracene	20.0	19.45		ug/L		97	35 - 143	15	30
Dibenzofuran	20.0	14.74		ug/L		74	41 - 119	13	30
Diethyl phthalate	20.0	14.34		ug/L		72	41 - 125	12	30
Dimethyl phthalate	20.0	14.98		ug/L		75	42 - 123	11	30
Di-n-butyl phthalate	20.0	16.00		ug/L		80	41 - 133	15	30
Di-n-octyl phthalate	20.0	14.75		ug/L		74	34 - 145	13	30
Diphenyl ether	20.0	13.38		ug/L		67	40 - 130	10	30
Ethyl methanesulfonate	20.0	13.79		ug/L		69	40 - 127	13	30
Fluoranthene	20.0	16.93		ug/L		85	38 - 132	16	30
Fluorene	20.0	14.73		ug/L		74	41 - 121	15	30
Hexachlorobenzene	20.0	15.80		ug/L		79	39 - 128	14	30
Hexachlorobutadiene	20.0	13.14		ug/L		66	31 - 120	11	30
Hexachlorocyclopentadiene	20.0	16.55		ug/L		83	15 - 117	11	30
Hexachloroethane	20.0	12.87		ug/L		64	37 - 109	9	30
Hexachloropropene	20.0	12.30		ug/L		62	24 - 122	16	30
Indeno[1,2,3-cd]pyrene	20.0	19.22		ug/L		96	35 - 141	13	30
Isophorone	20.0	14.08		ug/L		70	40 - 115	15	30
Methyl methanesulfonate	20.0	11.86		ug/L		59	33 - 120	8	30
Naphthalene	20.0	13.25		ug/L		66	37 - 113	13	30
Nitrobenzene	20.0	13.58		ug/L		68	37 - 114	11	30
N-Nitro-o-toluidine	20.0	14.82		ug/L		74	40 - 120	18	30
N-Nitrosodiethylamine	20.0	13.41		ug/L		67	42 - 115	12	30
N-Nitrosodimethylamine	20.0	11.66		ug/L		58	28 - 126	6	30
N-Nitrosodi-n-butylamine	20.0	11.16		ug/L		56	34 - 122	16	30
N-Nitrosodi-n-propylamine	20.0	13.34		ug/L		67	38 - 117	9	30
N-Nitrosodiphenylamine	20.0	16.19		ug/L		81	40 - 127	14	30
N-Nitrosomethylethylamine	20.0	13.38		ug/L		67	41 - 108	7	30
N-Nitrosomorpholine	20.0	13.02		ug/L		65	32 - 115	8	30
N-Nitrosopiperidine	20.0	12.88		ug/L		64	39 - 115	11	30
N-Nitrosopyrrolidine	20.0	13.14		ug/L		66	36 - 121	11	30
p-Dimethylamino azobenzene	20.0	12.63		ug/L		63	38 - 124	14	30
Pentachlorobenzene	20.0	14.04		ug/L		70	40 - 123	10	30
Pentachloronitrobenzene	20.0	14.77		ug/L		74	40 - 120	19	30
Pentachlorophenol	20.0	15.38		ug/L		77	10 - 137	25	30
Phenacetin	20.0	14.87		ug/L		74	20 - 130	17	30
Phenanthrene	20.0	15.85		ug/L		79	39 - 126	12	30
Phenol	20.0	8.397		ug/L		42	15 - 106	10	30
p-Phenylene diamine	20.0	<10.0	U *-	ug/L		0	1 - 150	NC	30
Pronamide	20.0	16.75		ug/L		84	25 - 120	18	30
Pyrene	20.0	14.74		ug/L		74	40 - 130	11	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-130968/3-A

Matrix: Water

Analysis Batch: 131106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130968

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pyridine	20.0	5.206		ug/L		26	16 - 135	7	30
Safrole, Total	20.0	14.04		ug/L		70	40 - 120	14	30
Aramite Peak 2	10.0	6.083		ug/L		61	35 - 130	18	30
Isosafrole Peak 1	3.20	<2.46	U	ug/L		65	40 - 120	12	30
Diallate Peak 2	5.20	3.948	J	ug/L		76	38 - 130	16	30
Isosafrole Peak 2	16.8	11.93		ug/L		71	40 - 120	13	30
Diallate Peak 1	14.8	12.17		ug/L		82	38 - 130	16	30
Aramite Peak 1	10.0	6.002		ug/L		60	35 - 130	21	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	84		31 - 132
2-Fluorobiphenyl	78		40 - 130
2-Fluorophenol (Surr)	59		21 - 114
Nitrobenzene-d5 (Surr)	77		37 - 130
Phenol-d5 (Surr)	46		16 - 117
p-Terphenyl-d14	96		20 - 141

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

GC/MS VOA

Analysis Batch: 130579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61242-1	TB-05(110923)	Total/NA	Water	8260D	
860-61242-2	MW-13	Total/NA	Water	8260D	
860-61242-3	MW-8	Total/NA	Water	8260D	
860-61242-4	MW-17	Total/NA	Water	8260D	
860-61242-4 - DL	MW-17	Total/NA	Water	8260D	
860-61242-5	DUP-01	Total/NA	Water	8260D	
860-61242-7	FB-01(110923)	Total/NA	Water	8260D	
MB 860-130579/9	Method Blank	Total/NA	Water	8260D	
LCS 860-130579/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-130579/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61082-E-1 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 130814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61242-2 - DL	MW-13	Total/NA	Water	8260D	
860-61242-3 - DL	MW-8	Total/NA	Water	8260D	
860-61242-5 - DL	DUP-01	Total/NA	Water	8260D	
MB 860-130814/9	Method Blank	Total/NA	Water	8260D	
LCS 860-130814/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-130814/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61132-I-2 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 130880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61242-6	MW-23	Total/NA	Water	8260D	
860-61242-8	MW-21	Total/NA	Water	8260D	
MB 860-130880/9	Method Blank	Total/NA	Water	8260D	
LCS 860-130880/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-130880/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61260-H-2 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 130977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61242-4 - DL2	MW-17	Total/NA	Water	8260D	
860-61242-4 - DL3	MW-17	Total/NA	Water	8260D	
MB 860-130977/9	Method Blank	Total/NA	Water	8260D	
LCS 860-130977/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-130977/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61182-I-2 MS	Matrix Spike	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 130871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61242-2	MW-13	Total/NA	Water	3510C	
860-61242-3	MW-8	Total/NA	Water	3510C	
MB 860-130871/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-130871/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-130871/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
860-61028-H-17-B MS	Matrix Spike	Total/NA	Water	3510C	
860-61028-H-17-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

GC/MS Semi VOA

Prep Batch: 130949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61242-2	MW-13	Total/NA	Water	3511	
860-61242-3	MW-8	Total/NA	Water	3511	
860-61242-4	MW-17	Total/NA	Water	3511	
860-61242-5	DUP-01	Total/NA	Water	3511	
860-61242-6	MW-23	Total/NA	Water	3511	
860-61242-8	MW-21	Total/NA	Water	3511	
MB 860-130949/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-130949/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-130949/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Prep Batch: 130968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61242-4	MW-17	Total/NA	Water	3510C	
860-61242-4 - DL	MW-17	Total/NA	Water	3510C	
860-61242-5	DUP-01	Total/NA	Water	3510C	
860-61242-6 - DL	MW-23	Total/NA	Water	3510C	
860-61242-6	MW-23	Total/NA	Water	3510C	
860-61242-8	MW-21	Total/NA	Water	3510C	
860-61242-8 - DL	MW-21	Total/NA	Water	3510C	
MB 860-130968/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-130968/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-130968/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 131054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-130871/1-A	Method Blank	Total/NA	Water	8270E LL	130871
LCS 860-130871/2-A	Lab Control Sample	Total/NA	Water	8270E LL	130871
LCSD 860-130871/3-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	130871
860-61028-H-17-B MS	Matrix Spike	Total/NA	Water	8270E LL	130871
860-61028-H-17-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270E LL	130871

Analysis Batch: 131106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-130968/1-A	Method Blank	Total/NA	Water	8270E LL	130968
LCS 860-130968/2-A	Lab Control Sample	Total/NA	Water	8270E LL	130968
LCSD 860-130968/3-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	130968

Analysis Batch: 131221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61242-6 - DL	MW-23	Total/NA	Water	8270E LL	130968

Analysis Batch: 131366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-130949/1-A	Method Blank	Total/NA	Water	8270E	130949
LCS 860-130949/2-A	Lab Control Sample	Total/NA	Water	8270E	130949
LCSD 860-130949/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	130949

Analysis Batch: 131436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61242-4	MW-17	Total/NA	Water	8270E LL	130968
860-61242-5	DUP-01	Total/NA	Water	8270E LL	130968

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

GC/MS Semi VOA (Continued)

Analysis Batch: 131436 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61242-6	MW-23	Total/NA	Water	8270E LL	130968
860-61242-8	MW-21	Total/NA	Water	8270E LL	130968
860-61242-8 - DL	MW-21	Total/NA	Water	8270E LL	130968

Analysis Batch: 131559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61242-4 - DL	MW-17	Total/NA	Water	8270E LL	130968

Analysis Batch: 131685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61242-2	MW-13	Total/NA	Water	8270E	130949
860-61242-3	MW-8	Total/NA	Water	8270E	130949
860-61242-4	MW-17	Total/NA	Water	8270E	130949
860-61242-5	DUP-01	Total/NA	Water	8270E	130949
860-61242-6	MW-23	Total/NA	Water	8270E	130949
860-61242-8	MW-21	Total/NA	Water	8270E	130949

Analysis Batch: 131720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61242-2	MW-13	Total/NA	Water	8270E LL	130871
860-61242-3	MW-8	Total/NA	Water	8270E LL	130871

Analysis Batch: 132731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61242-5	DUP-01	Total/NA	Water	8270E LL	130968
860-61242-6	MW-23	Total/NA	Water	8270E LL	130968

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: TB-05(110923)

Lab Sample ID: 860-61242-1

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/10/23 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130579	11/10/23 22:35	A1S	EET HOU

Client Sample ID: MW-13

Lab Sample ID: 860-61242-2

Date Collected: 11/09/23 09:16

Matrix: Water

Date Received: 11/10/23 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	DL	20	5 mL	5 mL	130814	11/13/23 23:58	AN	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	130579	11/11/23 01:19	A1S	EET HOU
Total/NA	Prep	3511			29.7 mL	2 mL	130949	11/14/23 10:57	TH	EET HOU
Total/NA	Analysis	8270E		50	1 mL	1 mL	131685	11/18/23 02:23	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130871	11/14/23 06:48	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131720	11/18/23 11:16	T1S	EET HOU

Client Sample ID: MW-8

Lab Sample ID: 860-61242-3

Date Collected: 11/09/23 10:25

Matrix: Water

Date Received: 11/10/23 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	DL	20	5 mL	5 mL	130814	11/14/23 00:17	AN	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	130579	11/11/23 01:40	A1S	EET HOU
Total/NA	Prep	3511			30.5 mL	2 mL	130949	11/14/23 10:57	TH	EET HOU
Total/NA	Analysis	8270E		100	1 mL	1 mL	131685	11/18/23 02:52	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130871	11/14/23 06:50	DR	EET HOU
Total/NA	Analysis	8270E LL		10	1 mL	1 mL	131720	11/18/23 11:57	T1S	EET HOU

Client Sample ID: MW-17

Lab Sample ID: 860-61242-4

Date Collected: 11/09/23 11:37

Matrix: Water

Date Received: 11/10/23 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	DL2	100	5 mL	5 mL	130977	11/15/23 06:25	AN	EET HOU
Total/NA	Analysis	8260D	DL3	500	5 mL	5 mL	130977	11/15/23 06:44	AN	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	130579	11/11/23 03:43	A1S	EET HOU
Total/NA	Analysis	8260D	DL	10	5 mL	5 mL	130579	11/11/23 04:03	A1S	EET HOU
Total/NA	Prep	3511			30.2 mL	2 mL	130949	11/14/23 10:57	TH	EET HOU
Total/NA	Analysis	8270E		50	1 mL	1 mL	131685	11/18/23 03:22	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130968	11/14/23 12:29	DR	EET HOU
Total/NA	Analysis	8270E LL		10	1 mL	1 mL	131436	11/16/23 22:45	EM	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	130968	11/14/23 12:29	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	100	1 mL	1 mL	131559	11/17/23 14:40	PXS	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Client Sample ID: DUP-01

Lab Sample ID: 860-61242-5

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/10/23 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	DL	20	5 mL	5 mL	130814	11/14/23 00:35	AN	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	130579	11/11/23 02:00	A1S	EET HOU
Total/NA	Prep	3511			30 mL	2 mL	130949	11/14/23 10:57	TH	EET HOU
Total/NA	Analysis	8270E		50	1 mL	1 mL	131685	11/18/23 03:51	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130968	11/14/23 12:29	DR	EET HOU
Total/NA	Analysis	8270E LL		10	1 mL	1 mL	131436	11/16/23 23:05	EM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130968	11/14/23 12:29	DR	EET HOU
Total/NA	Analysis	8270E LL		10	1 mL	1 mL	132731	11/28/23 14:20	T1S	EET HOU

Client Sample ID: MW-23

Lab Sample ID: 860-61242-6

Date Collected: 11/09/23 14:12

Matrix: Water

Date Received: 11/10/23 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		50	5 mL	5 mL	130880	11/14/23 15:14	NA	EET HOU
Total/NA	Prep	3511			30 mL	2 mL	130949	11/14/23 10:57	TH	EET HOU
Total/NA	Analysis	8270E		50	1 mL	1 mL	131685	11/18/23 04:21	JM	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	130968	11/14/23 12:29	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	50	1 mL	1 mL	131221	11/15/23 21:20	PXS	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130968	11/14/23 12:29	DR	EET HOU
Total/NA	Analysis	8270E LL		5	1 mL	1 mL	131436	11/16/23 21:42	EM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130968	11/14/23 12:29	DR	EET HOU
Total/NA	Analysis	8270E LL		5	1 mL	1 mL	132731	11/28/23 15:22	T1S	EET HOU

Client Sample ID: FB-01(110923)

Lab Sample ID: 860-61242-7

Date Collected: 11/09/23 14:12

Matrix: Water

Date Received: 11/10/23 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130579	11/10/23 22:55	A1S	EET HOU

Client Sample ID: MW-21

Lab Sample ID: 860-61242-8

Date Collected: 11/09/23 15:01

Matrix: Water

Date Received: 11/10/23 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		50	5 mL	5 mL	130880	11/14/23 15:34	NA	EET HOU
Total/NA	Prep	3511			30 mL	2 mL	130949	11/14/23 10:57	TH	EET HOU
Total/NA	Analysis	8270E		50	1 mL	1 mL	131685	11/18/23 04:51	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	130968	11/14/23 12:29	DR	EET HOU
Total/NA	Analysis	8270E LL		5	1 mL	1 mL	131436	11/16/23 19:37	EM	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	130968	11/14/23 12:29	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	50	1 mL	1 mL	131436	11/16/23 19:58	EM	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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Accreditation/Certification Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61242-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-61242-1	TB-05(110923)	Water	11/09/23 00:00	11/10/23 10:09
860-61242-2	MW-13	Water	11/09/23 09:16	11/10/23 10:09
860-61242-3	MW-8	Water	11/09/23 10:25	11/10/23 10:09
860-61242-4	MW-17	Water	11/09/23 11:37	11/10/23 10:09
860-61242-5	DUP-01	Water	11/09/23 00:00	11/10/23 10:09
860-61242-6	MW-23	Water	11/09/23 14:12	11/10/23 10:09
860-61242-7	FB-01(110923)	Water	11/09/23 14:12	11/10/23 10:09
860-61242-8	MW-21	Water	11/09/23 15:01	11/10/23 10:09

Client Information						Carrier Tracking No(s): 860-23558-8445.1						
Sampler: Kappa Montgomerie L-10 PM:						State of Origin:						
Client Contact: Mr Antonio Cardoso E-Mail: Sachin Kudchadkar@eurofinsus.com												
Company: ARCADIS US Inc						PWSID:						
Address: 4300 West Cypress Street Suite 450						Due Date Requested:						
City: Tampa						TAT Requested (days):						
State, Zip: FL, 33607						Compliance Project: Δ Yes Δ No						
Phone:						PO #:						
Email: antonio.cardoso@arcadis.com						WO #:						
Project Name: Hercules Hattiesburg, MS						Project #: 86006085						
Site:						SSOW#:						
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, Overhaul Oil)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270E SIM ID_D5 1,4 Dioxane	8270E LL Appendix 9 SVOCs	8260D Appendix 9 VOCs	Total Number of Containers	Special Instructions/Note:
TB-05(110923)		11/9/23	-	G	Water	N	N	N	N	N	X	
MW-13		"	0916	G	Water	N	N	X	X	V	2	
MW-08		"	1025	G	Water	N	N	X	X	X	7	
MW-17		"	1127	G	Water	M	N	X	X	X	2	
DUP-01		"	-	G	Water	M	N	X	X	X	2	
MW-23		"	1412	G	Water	M	N	X	X	X	2	
FB-01(110923)		"	1412	G	Water	M	N	-	-	X	3	
MW-21		"	1501	G	Water	M	N	X	X	X	7	
					Water							
					Water							
					Water							
					Water							
Temp: 0.6 IR IDHOU-369 C/F -0.0 Corrected Temp: 0.6												
Special Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months												
Special Instructions/QC Requirements.												
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological						Method of Shipment						
Deliverable Requested: I II III IV Other (specify)						Date:						
Empty Kit Relinquished by: [Signature]						Date/Time: 11-9-23 / 1600						
Relinquished by: [Signature]						Date/Time: 11-9-23 / 1600						
Relinquished by: [Signature]						Date/Time: 11-9-23 / 1600						
Relinquished by: [Signature]						Date/Time: 11-9-23 / 1600						
Custody Seal Intact: Δ Yes Δ No						Custody Seal No.						

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-61242-1

Login Number: 61242

List Number: 1

Creator: Rubio, Yuri

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

ANALYTICAL REPORT

PREPARED FOR

Attn: Timothy Hassett
Ashland LLC
Ashland Hercules Research Center
500 Hercules Rd Bldg 8145
Wilmington, Delaware 19808

Generated 11/29/2023 6:43:56 PM

JOB DESCRIPTION

Hercules Hattiesburg, MS

JOB NUMBER

860-61243-1

Eurofins Houston

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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11/29/2023 6:43:56 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Definitions/Glossary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Job ID: 860-61243-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-61243-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/10/2023 10:09 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C

GC/MS VOA

Method 8260D: The following sample was diluted due to its cloudy matrix and floating particles: MW-12 (860-61243-1). Elevated reporting limits (RL) are provided.

Method 8260D: The following sample was diluted due to its yellow-brown color, cloudy matrix and floating particles: MW-12 (860-61243-1). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270E_LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-131120 and analytical batch 860-131314 recovered outside control limits for the following analyte(s): 3,3'-Dimethylbenzidine, p-Phenylene diamine and Pyridine. 3,3'-Dimethylbenzidine, p-Phenylene diamine and Pyridine have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. <INCLUDE_IF_APPLICABLE> Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method 8270E_LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-16 (860-61243-4). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: The following sample required a dilution due to the nature of the sample matrix: MW-16 (860-61243-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E_LL: The following sample was diluted due to the nature of the sample matrix: MW-16 (860-61243-4). Elevated reporting limits (RLs) are provided.

Method 8270E_QQQ: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-14 (860-61243-2), MW-15 (860-61243-3) and MW-16 (860-61243-4). Elevated reporting limits (RLs) are provided.

Method 8270E_QQQ: The following samples required a dilution due to the nature of the sample matrix: MW-15 (860-61243-3) and MW-16 (860-61243-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-12

Lab Sample ID: 860-61243-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	25.3		2.00	0.800	ug/L	1		8270E LL	Total/NA
Diphenyl ether	0.369	J	8.00	0.364	ug/L	1		8270E LL	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 860-61243-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.07	J	100	3.07	ug/L	1		8260D	Total/NA
Di-n-butyl phthalate	23.4		2.00	0.800	ug/L	1		8270E LL	Total/NA
Diphenyl ether	24.3		8.00	0.364	ug/L	1		8270E LL	Total/NA
o,o',o"-Triethylphosphorothioate	45.4		8.00	0.0579	ug/L	1		8270E LL	Total/NA
Phenol	0.608	J	4.00	0.202	ug/L	1		8270E LL	Total/NA
1,4-Dioxane	274		33.0	8.66	ug/L	50		8270E	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 860-61243-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	30.9		2.00	0.800	ug/L	1		8270E LL	Total/NA
o,o',o"-Triethylphosphorothioate	33.9		8.00	0.0579	ug/L	1		8270E LL	Total/NA
1,4-Dioxane	1020		66.4	17.4	ug/L	100		8270E	Total/NA

Client Sample ID: MW-16

Lab Sample ID: 860-61243-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	4.33	J	5.00	1.29	ug/L	1		8260D	Total/NA
Tetrahydrofuran	5.13	J	10.0	1.83	ug/L	1		8260D	Total/NA
Di-n-butyl phthalate	27.5		10.0	4.00	ug/L	5		8270E LL	Total/NA
Diphenyl ether	1.94	J	40.0	1.82	ug/L	5		8270E LL	Total/NA
o,o',o"-Triethylphosphorothioate - DL	414		400	2.90	ug/L	50		8270E LL	Total/NA
1,4-Dioxane	448		67.8	17.8	ug/L	100		8270E	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 860-61243-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.156	J	2.00	0.154	ug/L	1		8270E LL	Total/NA
Di-n-butyl phthalate	40.1		2.00	0.800	ug/L	1		8270E LL	Total/NA
Diphenyl ether	20.5		8.00	0.364	ug/L	1		8270E LL	Total/NA
1,4-Dioxane	0.970		0.671	0.176	ug/L	1		8270E	Total/NA

Client Sample ID: TB-06 (110923)

Lab Sample ID: 860-61243-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-12

Lab Sample ID: 860-61243-1

Date Collected: 11/09/23 09:55

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.29	U	2.00	1.29	ug/L			11/11/23 04:24	2
1,1,1-Trichloroethane	<1.17	U	10.0	1.17	ug/L			11/11/23 04:24	2
1,1,2,2-Tetrachloroethane	<0.940	U	2.00	0.940	ug/L			11/11/23 04:24	2
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.22	U	20.0	2.22	ug/L			11/11/23 04:24	2
1,1,2-Trichloroethane	<0.822	U	2.00	0.822	ug/L			11/11/23 04:24	2
1,1-Dichloroethane	<1.27	U	2.00	1.27	ug/L			11/11/23 04:24	2
1,1-Dichloroethene	<1.48	U	2.00	1.48	ug/L			11/11/23 04:24	2
1,2,3-Trichloropropane	<0.940	U	2.00	0.940	ug/L			11/11/23 04:24	2
1,2,4-Trimethylbenzene	<0.834	U	2.00	0.834	ug/L			11/11/23 04:24	2
1,2-Dibromo-3-Chloropropane	<1.34	U	10.0	1.34	ug/L			11/11/23 04:24	2
1,2-Dibromoethane	<2.00	U	10.0	2.00	ug/L			11/11/23 04:24	2
1,2-Dichloroethane	<0.744	U	2.00	0.744	ug/L			11/11/23 04:24	2
1,2-Dichloropropane	<1.11	U	10.0	1.11	ug/L			11/11/23 04:24	2
1,3,5-Trimethylbenzene	<0.822	U	2.00	0.822	ug/L			11/11/23 04:24	2
1,3-Butadiene	<1.14	U	2.00	1.14	ug/L			11/11/23 04:24	2
2,2,4-Trimethylpentane	<1.00	U	10.0	1.00	ug/L			11/11/23 04:24	2
2-Butanone (MEK)	<16.6	U	100	16.6	ug/L			11/11/23 04:24	2
2-Hexanone (MBK)	<14.9	U	100	14.9	ug/L			11/11/23 04:24	2
2-Propanol	<10.5	U	20.0	10.5	ug/L			11/11/23 04:24	2
3-Chloropropene (Allyl Chloride)	<1.19	U	10.0	1.19	ug/L			11/11/23 04:24	2
4-Methyl-2-pentanone	<15.0	U	100	15.0	ug/L			11/11/23 04:24	2
Acetone	<6.13	U	200	6.13	ug/L			11/11/23 04:24	2
Acetonitrile	<29.2	U	200	29.2	ug/L			11/11/23 04:24	2
Acrolein	<22.2	U	100	22.2	ug/L			11/11/23 04:24	2
Acrylonitrile	<28.6	U	100	28.6	ug/L			11/11/23 04:24	2
alpha-Chlorotoluene	<4.51	U	10.0	4.51	ug/L			11/11/23 04:24	2
Benzene	<0.919	U	2.00	0.919	ug/L			11/11/23 04:24	2
Bromodichloromethane	<1.10	U	2.00	1.10	ug/L			11/11/23 04:24	2
Bromoform	<1.27	U	10.0	1.27	ug/L			11/11/23 04:24	2
Bromomethane	<2.84	U	10.0	2.84	ug/L			11/11/23 04:24	2
Carbon disulfide	<3.30	U	10.0	3.30	ug/L			11/11/23 04:24	2
Chlorodibromomethane	<1.09	U	10.0	1.09	ug/L			11/11/23 04:24	2
Chloroethane	<3.97	U	20.0	3.97	ug/L			11/11/23 04:24	2
Chloromethane	<4.07	U	20.0	4.07	ug/L			11/11/23 04:24	2
Chloroprene	<1.20	U	10.0	1.20	ug/L			11/11/23 04:24	2
cis-1,2-Dichloroethene	<0.914	U	2.00	0.914	ug/L			11/11/23 04:24	2
cis-1,3-Dichloropropene	<2.13	U	10.0	2.13	ug/L			11/11/23 04:24	2
Cumene (isopropylbenzene)	<1.18	U	2.00	1.18	ug/L			11/11/23 04:24	2
Dibromomethane	<0.714	U	2.00	0.714	ug/L			11/11/23 04:24	2
Dichlorodifluoromethane	<1.57	U	2.00	1.57	ug/L			11/11/23 04:24	2
Ethyl methacrylate	<2.24	U	10.0	2.24	ug/L			11/11/23 04:24	2
Ethylbenzene	<0.770	U	2.00	0.770	ug/L			11/11/23 04:24	2
Hexane	<1.03	U	10.0	1.03	ug/L			11/11/23 04:24	2
Iodomethane	<13.0	U	40.0	13.0	ug/L			11/11/23 04:24	2
Isobutanol	<34.2	U	100	34.2	ug/L			11/11/23 04:24	2
Methacrylonitrile	<5.43	U	20.0	5.43	ug/L			11/11/23 04:24	2
Methyl methacrylate	<4.50	U	20.0	4.50	ug/L			11/11/23 04:24	2
Methyl tert-butyl ether	<2.78	U	10.0	2.78	ug/L			11/11/23 04:24	2
Methylene Chloride	<3.45	U	10.0	3.45	ug/L			11/11/23 04:24	2

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-12

Lab Sample ID: 860-61243-1

Date Collected: 11/09/23 09:55

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<6.68	U	20.0	6.68	ug/L			11/11/23 04:24	2
Propylbenzene	<0.858	U	2.00	0.858	ug/L			11/11/23 04:24	2
Styrene	<1.24	U	2.00	1.24	ug/L			11/11/23 04:24	2
Tetrachloroethene	<1.31	U	2.00	1.31	ug/L			11/11/23 04:24	2
Tetrahydrofuran	<3.67	U	20.0	3.67	ug/L			11/11/23 04:24	2
Toluene	<0.950	U	2.00	0.950	ug/L			11/11/23 04:24	2
trans-1,2-Dichloroethene	<0.736	U	2.00	0.736	ug/L			11/11/23 04:24	2
trans-1,3-Dichloropropene	<2.53	U	10.0	2.53	ug/L			11/11/23 04:24	2
trans-1,4-Dichloro-2-butene	<2.70	U	20.0	2.70	ug/L			11/11/23 04:24	2
Trichloroethene	<1.58	U	10.0	1.58	ug/L			11/11/23 04:24	2
Trichlorofluoromethane	<1.12	U	2.00	1.12	ug/L			11/11/23 04:24	2
Vinyl acetate	<4.28	U	40.0	4.28	ug/L			11/11/23 04:24	2
Vinyl chloride	<0.856	U	4.00	0.856	ug/L			11/11/23 04:24	2
Xylenes, Total	<2.48	U	20.0	2.48	ug/L			11/11/23 04:24	2
m,p-Xylenes	<0.00248	U	0.0200	0.00248	mg/L			11/11/23 04:24	2
o-Xylene	<0.00100	U	0.00200	0.00100	mg/L			11/11/23 04:24	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		11/11/23 04:24	2
4-Bromofluorobenzene (Surr)	100		74 - 124		11/11/23 04:24	2
Dibromofluoromethane (Surr)	100		75 - 131		11/11/23 04:24	2
Toluene-d8 (Surr)	99		80 - 120		11/11/23 04:24	2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<1.79	U	10.0	1.79	ug/L			11/15/23 03:35	2
Chlorobenzene	<0.910	U	2.00	0.910	ug/L			11/15/23 03:35	2
Chloroform	<0.928	U	2.00	0.928	ug/L			11/15/23 03:35	2
Cyclohexane	<2.57	U	10.0	2.57	ug/L			11/15/23 03:35	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		63 - 144		11/15/23 03:35	2
4-Bromofluorobenzene (Surr)	111		74 - 124		11/15/23 03:35	2
Dibromofluoromethane (Surr)	116		75 - 131		11/15/23 03:35	2
Toluene-d8 (Surr)	104		80 - 120		11/15/23 03:35	2

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/15/23 09:09	11/16/23 17:53	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/15/23 09:09	11/16/23 17:53	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/15/23 09:09	11/16/23 17:53	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/15/23 09:09	11/16/23 17:53	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/15/23 09:09	11/16/23 17:53	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/15/23 09:09	11/16/23 17:53	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/15/23 09:09	11/16/23 17:53	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/15/23 09:09	11/16/23 17:53	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/15/23 09:09	11/16/23 17:53	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/15/23 09:09	11/16/23 17:53	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/15/23 09:09	11/16/23 17:53	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/15/23 09:09	11/16/23 17:53	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-12

Lab Sample ID: 860-61243-1

Date Collected: 11/09/23 09:55

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/15/23 09:09	11/16/23 17:53	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/15/23 09:09	11/16/23 17:53	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/15/23 09:09	11/16/23 17:53	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 17:53	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/15/23 09:09	11/16/23 17:53	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/15/23 09:09	11/16/23 17:53	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/15/23 09:09	11/16/23 17:53	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/15/23 09:09	11/16/23 17:53	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/15/23 09:09	11/16/23 17:53	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/15/23 09:09	11/16/23 17:53	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/15/23 09:09	11/16/23 17:53	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/15/23 09:09	11/16/23 17:53	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/15/23 09:09	11/16/23 17:53	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/15/23 09:09	11/16/23 17:53	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/15/23 09:09	11/16/23 17:53	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/15/23 09:09	11/16/23 17:53	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/15/23 09:09	11/16/23 17:53	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/15/23 09:09	11/16/23 17:53	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/15/23 09:09	11/16/23 17:53	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/15/23 09:09	11/16/23 17:53	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/15/23 09:09	11/16/23 17:53	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/15/23 09:09	11/16/23 17:53	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/15/23 09:09	11/16/23 17:53	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/15/23 09:09	11/16/23 17:53	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/15/23 09:09	11/16/23 17:53	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/15/23 09:09	11/16/23 17:53	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/15/23 09:09	11/16/23 17:53	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/15/23 09:09	11/16/23 17:53	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/15/23 09:09	11/16/23 17:53	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/15/23 09:09	11/16/23 17:53	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/15/23 09:09	11/16/23 17:53	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/15/23 09:09	11/16/23 17:53	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/15/23 09:09	11/16/23 17:53	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/15/23 09:09	11/16/23 17:53	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/15/23 09:09	11/16/23 17:53	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/15/23 09:09	11/16/23 17:53	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/15/23 09:09	11/16/23 17:53	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/15/23 09:09	11/16/23 17:53	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/15/23 09:09	11/16/23 17:53	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/15/23 09:09	11/16/23 17:53	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 17:53	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/15/23 09:09	11/16/23 17:53	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/15/23 09:09	11/16/23 17:53	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/15/23 09:09	11/16/23 17:53	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/15/23 09:09	11/16/23 17:53	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/15/23 09:09	11/16/23 17:53	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/15/23 09:09	11/16/23 17:53	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/15/23 09:09	11/16/23 17:53	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/15/23 09:09	11/16/23 17:53	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-12

Lab Sample ID: 860-61243-1

Date Collected: 11/09/23 09:55

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.159	U	2.00	0.159	ug/L		11/15/23 09:09	11/16/23 17:53	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/15/23 09:09	11/16/23 17:53	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 17:53	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/15/23 09:09	11/16/23 17:53	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/15/23 09:09	11/16/23 17:53	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/15/23 09:09	11/16/23 17:53	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/15/23 09:09	11/16/23 17:53	1
Di-n-butyl phthalate	25.3		2.00	0.800	ug/L		11/15/23 09:09	11/16/23 17:53	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/15/23 09:09	11/16/23 17:53	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/15/23 09:09	11/16/23 17:53	1
Diphenyl ether	0.369	J	8.00	0.364	ug/L		11/15/23 09:09	11/16/23 17:53	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/15/23 09:09	11/16/23 17:53	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/15/23 09:09	11/16/23 17:53	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/15/23 09:09	11/16/23 17:53	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/15/23 09:09	11/16/23 17:53	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 17:53	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/15/23 09:09	11/16/23 17:53	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/15/23 09:09	11/16/23 17:53	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/15/23 09:09	11/16/23 17:53	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/15/23 09:09	11/16/23 17:53	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/15/23 09:09	11/16/23 17:53	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/15/23 09:09	11/16/23 17:53	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/15/23 09:09	11/16/23 17:53	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/15/23 09:09	11/16/23 17:53	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/15/23 09:09	11/16/23 17:53	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/15/23 09:09	11/16/23 17:53	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/15/23 09:09	11/16/23 17:53	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/15/23 09:09	11/16/23 17:53	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/15/23 09:09	11/16/23 17:53	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/15/23 09:09	11/16/23 17:53	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/15/23 09:09	11/16/23 17:53	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/15/23 09:09	11/16/23 17:53	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/15/23 09:09	11/16/23 17:53	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/15/23 09:09	11/16/23 17:53	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/15/23 09:09	11/16/23 17:53	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/15/23 09:09	11/16/23 17:53	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/15/23 09:09	11/16/23 17:53	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/15/23 09:09	11/16/23 17:53	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/15/23 09:09	11/16/23 17:53	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/15/23 09:09	11/16/23 17:53	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/15/23 09:09	11/16/23 17:53	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/15/23 09:09	11/16/23 17:53	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/15/23 09:09	11/16/23 17:53	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/15/23 09:09	11/16/23 17:53	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/15/23 09:09	11/16/23 17:53	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/15/23 09:09	11/16/23 17:53	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/15/23 09:09	11/16/23 17:53	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/15/23 09:09	11/16/23 17:53	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/15/23 09:09	11/16/23 17:53	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-12

Lab Sample ID: 860-61243-1

Date Collected: 11/09/23 09:55

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/15/23 09:09	11/16/23 17:53	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/15/23 09:09	11/16/23 17:53	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/15/23 09:09	11/16/23 17:53	1
Pyridine	<0.725	U *	2.00	0.725	ug/L		11/15/23 09:09	11/16/23 17:53	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/15/23 09:09	11/16/23 17:53	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/15/23 09:09	11/16/23 17:53	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/15/23 09:09	11/16/23 17:53	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/15/23 09:09	11/16/23 17:53	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/15/23 09:09	11/16/23 17:53	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/15/23 09:09	11/16/23 17:53	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/15/23 09:09	11/16/23 17:53	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/15/23 09:09	11/16/23 17:53	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/15/23 09:09	11/16/23 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		31 - 132	11/15/23 09:09	11/16/23 17:53	1
2-Fluorobiphenyl	72		40 - 130	11/15/23 09:09	11/16/23 17:53	1
2-Fluorophenol (Surr)	46		21 - 114	11/15/23 09:09	11/16/23 17:53	1
Nitrobenzene-d5 (Surr)	64		37 - 130	11/15/23 09:09	11/16/23 17:53	1
Phenol-d5 (Surr)	34		16 - 117	11/15/23 09:09	11/16/23 17:53	1
p-Terphenyl-d14	115		20 - 141	11/15/23 09:09	11/16/23 17:53	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.175	U	0.667	0.175	ug/L		11/14/23 10:57	11/16/23 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	112		37 - 133	11/14/23 10:57	11/16/23 17:08	1

Client Sample ID: MW-14

Lab Sample ID: 860-61243-2

Date Collected: 11/09/23 11:15

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/11/23 03:22	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/11/23 03:22	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/11/23 03:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/11/23 03:22	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/11/23 03:22	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/11/23 03:22	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/11/23 03:22	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/11/23 03:22	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/11/23 03:22	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/11/23 03:22	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/11/23 03:22	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/11/23 03:22	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/11/23 03:22	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/11/23 03:22	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/11/23 03:22	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/11/23 03:22	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-14

Lab Sample ID: 860-61243-2

Date Collected: 11/09/23 11:15

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/11/23 03:22	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/11/23 03:22	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/11/23 03:22	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/11/23 03:22	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/11/23 03:22	1
Acetone	7.07	J	100	3.07	ug/L			11/11/23 03:22	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/11/23 03:22	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/11/23 03:22	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/11/23 03:22	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/11/23 03:22	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/11/23 03:22	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/11/23 03:22	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/11/23 03:22	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/11/23 03:22	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/11/23 03:22	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/11/23 03:22	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/11/23 03:22	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/11/23 03:22	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/11/23 03:22	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/11/23 03:22	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/11/23 03:22	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/11/23 03:22	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/11/23 03:22	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/11/23 03:22	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/11/23 03:22	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/11/23 03:22	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/11/23 03:22	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/11/23 03:22	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/11/23 03:22	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/11/23 03:22	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/11/23 03:22	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/11/23 03:22	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/11/23 03:22	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/11/23 03:22	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/11/23 03:22	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/11/23 03:22	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/11/23 03:22	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/11/23 03:22	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/11/23 03:22	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/11/23 03:22	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/11/23 03:22	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/11/23 03:22	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/11/23 03:22	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/11/23 03:22	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/11/23 03:22	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/11/23 03:22	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/11/23 03:22	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/11/23 03:22	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/11/23 03:22	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-14

Lab Sample ID: 860-61243-2

Date Collected: 11/09/23 11:15

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/11/23 03:22	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/11/23 03:22	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/11/23 03:22	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/11/23 03:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144					11/11/23 03:22	1
4-Bromofluorobenzene (Surr)	98		74 - 124					11/11/23 03:22	1
Dibromofluoromethane (Surr)	99		75 - 131					11/11/23 03:22	1
Toluene-d8 (Surr)	99		80 - 120					11/11/23 03:22	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/15/23 09:09	11/16/23 18:35	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/15/23 09:09	11/16/23 18:35	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/15/23 09:09	11/16/23 18:35	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/15/23 09:09	11/16/23 18:35	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/15/23 09:09	11/16/23 18:35	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/15/23 09:09	11/16/23 18:35	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/15/23 09:09	11/16/23 18:35	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/15/23 09:09	11/16/23 18:35	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/15/23 09:09	11/16/23 18:35	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/15/23 09:09	11/16/23 18:35	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/15/23 09:09	11/16/23 18:35	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/15/23 09:09	11/16/23 18:35	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/15/23 09:09	11/16/23 18:35	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/15/23 09:09	11/16/23 18:35	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/15/23 09:09	11/16/23 18:35	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 18:35	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/15/23 09:09	11/16/23 18:35	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/15/23 09:09	11/16/23 18:35	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/15/23 09:09	11/16/23 18:35	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/15/23 09:09	11/16/23 18:35	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/15/23 09:09	11/16/23 18:35	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/15/23 09:09	11/16/23 18:35	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/15/23 09:09	11/16/23 18:35	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/15/23 09:09	11/16/23 18:35	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/15/23 09:09	11/16/23 18:35	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/15/23 09:09	11/16/23 18:35	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/15/23 09:09	11/16/23 18:35	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/15/23 09:09	11/16/23 18:35	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/15/23 09:09	11/16/23 18:35	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/15/23 09:09	11/16/23 18:35	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/15/23 09:09	11/16/23 18:35	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/15/23 09:09	11/16/23 18:35	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/15/23 09:09	11/16/23 18:35	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/15/23 09:09	11/16/23 18:35	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/15/23 09:09	11/16/23 18:35	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/15/23 09:09	11/16/23 18:35	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/15/23 09:09	11/16/23 18:35	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-14

Lab Sample ID: 860-61243-2

Date Collected: 11/09/23 11:15

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/15/23 09:09	11/16/23 18:35	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/15/23 09:09	11/16/23 18:35	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/15/23 09:09	11/16/23 18:35	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/15/23 09:09	11/16/23 18:35	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/15/23 09:09	11/16/23 18:35	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/15/23 09:09	11/16/23 18:35	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/15/23 09:09	11/16/23 18:35	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/15/23 09:09	11/16/23 18:35	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/15/23 09:09	11/16/23 18:35	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/15/23 09:09	11/16/23 18:35	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/15/23 09:09	11/16/23 18:35	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/15/23 09:09	11/16/23 18:35	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/15/23 09:09	11/16/23 18:35	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/15/23 09:09	11/16/23 18:35	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/15/23 09:09	11/16/23 18:35	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 18:35	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/15/23 09:09	11/16/23 18:35	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/15/23 09:09	11/16/23 18:35	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/15/23 09:09	11/16/23 18:35	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/15/23 09:09	11/16/23 18:35	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/15/23 09:09	11/16/23 18:35	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/15/23 09:09	11/16/23 18:35	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/15/23 09:09	11/16/23 18:35	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/15/23 09:09	11/16/23 18:35	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/15/23 09:09	11/16/23 18:35	1
Diallylate	<0.602	U	8.00	0.602	ug/L		11/15/23 09:09	11/16/23 18:35	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 18:35	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/15/23 09:09	11/16/23 18:35	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/15/23 09:09	11/16/23 18:35	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/15/23 09:09	11/16/23 18:35	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/15/23 09:09	11/16/23 18:35	1
Di-n-butyl phthalate	23.4		2.00	0.800	ug/L		11/15/23 09:09	11/16/23 18:35	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/15/23 09:09	11/16/23 18:35	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/15/23 09:09	11/16/23 18:35	1
Diphenyl ether	24.3		8.00	0.364	ug/L		11/15/23 09:09	11/16/23 18:35	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/15/23 09:09	11/16/23 18:35	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/15/23 09:09	11/16/23 18:35	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/15/23 09:09	11/16/23 18:35	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/15/23 09:09	11/16/23 18:35	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 18:35	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/15/23 09:09	11/16/23 18:35	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/15/23 09:09	11/16/23 18:35	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/15/23 09:09	11/16/23 18:35	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/15/23 09:09	11/16/23 18:35	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/15/23 09:09	11/16/23 18:35	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/15/23 09:09	11/16/23 18:35	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/15/23 09:09	11/16/23 18:35	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/15/23 09:09	11/16/23 18:35	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/15/23 09:09	11/16/23 18:35	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-14

Lab Sample ID: 860-61243-2

Date Collected: 11/09/23 11:15

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/15/23 09:09	11/16/23 18:35	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/15/23 09:09	11/16/23 18:35	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/15/23 09:09	11/16/23 18:35	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/15/23 09:09	11/16/23 18:35	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/15/23 09:09	11/16/23 18:35	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/15/23 09:09	11/16/23 18:35	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/15/23 09:09	11/16/23 18:35	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/15/23 09:09	11/16/23 18:35	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/15/23 09:09	11/16/23 18:35	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/15/23 09:09	11/16/23 18:35	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/15/23 09:09	11/16/23 18:35	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/15/23 09:09	11/16/23 18:35	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/15/23 09:09	11/16/23 18:35	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/15/23 09:09	11/16/23 18:35	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/15/23 09:09	11/16/23 18:35	1
o,o',o''-Triethylphosphorothioate	45.4		8.00	0.0579	ug/L		11/15/23 09:09	11/28/23 11:34	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/15/23 09:09	11/16/23 18:35	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/15/23 09:09	11/16/23 18:35	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/15/23 09:09	11/16/23 18:35	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/15/23 09:09	11/16/23 18:35	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/15/23 09:09	11/16/23 18:35	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/15/23 09:09	11/16/23 18:35	1
Phenol	0.608	J	4.00	0.202	ug/L		11/15/23 09:09	11/16/23 18:35	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/15/23 09:09	11/16/23 18:35	1
p-Phenylene diamine	<10.0	U *-	10.0	10.0	ug/L		11/15/23 09:09	11/16/23 18:35	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/15/23 09:09	11/16/23 18:35	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/15/23 09:09	11/16/23 18:35	1
Pyridine	<0.725	U *-	2.00	0.725	ug/L		11/15/23 09:09	11/16/23 18:35	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/15/23 09:09	11/16/23 18:35	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/15/23 09:09	11/16/23 18:35	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/15/23 09:09	11/16/23 18:35	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/15/23 09:09	11/16/23 18:35	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/15/23 09:09	11/16/23 18:35	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/15/23 09:09	11/16/23 18:35	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/15/23 09:09	11/16/23 18:35	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/15/23 09:09	11/16/23 18:35	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/15/23 09:09	11/16/23 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	65		31 - 132	11/15/23 09:09	11/16/23 18:35	1
2,4,6-Tribromophenol (Surr)	55		31 - 132	11/15/23 09:09	11/28/23 11:34	1
2-Fluorobiphenyl	59		40 - 130	11/15/23 09:09	11/16/23 18:35	1
2-Fluorobiphenyl	53		40 - 130	11/15/23 09:09	11/28/23 11:34	1
2-Fluorophenol (Surr)	35		21 - 114	11/15/23 09:09	11/16/23 18:35	1
2-Fluorophenol (Surr)	34		21 - 114	11/15/23 09:09	11/28/23 11:34	1
Nitrobenzene-d5 (Surr)	51		37 - 130	11/15/23 09:09	11/16/23 18:35	1
Nitrobenzene-d5 (Surr)	42		37 - 130	11/15/23 09:09	11/28/23 11:34	1
Phenol-d5 (Surr)	26		16 - 117	11/15/23 09:09	11/16/23 18:35	1
Phenol-d5 (Surr)	21		16 - 117	11/15/23 09:09	11/28/23 11:34	1
p-Terphenyl-d14	58		20 - 141	11/15/23 09:09	11/16/23 18:35	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-14

Date Collected: 11/09/23 11:15

Date Received: 11/10/23 10:09

Lab Sample ID: 860-61243-2

Matrix: Water

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14	54		20 - 141	11/15/23 09:09	11/28/23 11:34	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	274		33.0	8.66	ug/L		11/14/23 10:57	11/18/23 05:50	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	132		37 - 133	11/14/23 10:57	11/18/23 05:50	50

Client Sample ID: MW-15

Date Collected: 11/09/23 12:42

Date Received: 11/10/23 10:09

Lab Sample ID: 860-61243-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/11/23 03:02	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/11/23 03:02	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/11/23 03:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/11/23 03:02	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/11/23 03:02	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/11/23 03:02	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/11/23 03:02	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/11/23 03:02	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/11/23 03:02	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/11/23 03:02	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/11/23 03:02	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/11/23 03:02	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/11/23 03:02	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/11/23 03:02	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/11/23 03:02	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/11/23 03:02	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/11/23 03:02	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/11/23 03:02	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/11/23 03:02	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/11/23 03:02	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/11/23 03:02	1
Acetone	<3.07	U	100	3.07	ug/L			11/11/23 03:02	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/11/23 03:02	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/11/23 03:02	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/11/23 03:02	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/11/23 03:02	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/11/23 03:02	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/11/23 03:02	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/11/23 03:02	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/11/23 03:02	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/11/23 03:02	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/11/23 03:02	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/11/23 03:02	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/11/23 03:02	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/11/23 03:02	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-15

Lab Sample ID: 860-61243-3

Date Collected: 11/09/23 12:42

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.464	U	1.00	0.464	ug/L			11/11/23 03:02	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/11/23 03:02	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/11/23 03:02	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/11/23 03:02	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/11/23 03:02	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/11/23 03:02	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/11/23 03:02	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/11/23 03:02	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/11/23 03:02	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/11/23 03:02	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/11/23 03:02	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/11/23 03:02	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/11/23 03:02	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/11/23 03:02	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/11/23 03:02	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/11/23 03:02	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/11/23 03:02	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/11/23 03:02	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/11/23 03:02	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/11/23 03:02	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/11/23 03:02	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/11/23 03:02	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/11/23 03:02	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/11/23 03:02	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/11/23 03:02	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/11/23 03:02	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/11/23 03:02	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/11/23 03:02	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/11/23 03:02	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/11/23 03:02	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/11/23 03:02	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/11/23 03:02	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/11/23 03:02	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/11/23 03:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 144		11/11/23 03:02	1
4-Bromofluorobenzene (Surr)	99		74 - 124		11/11/23 03:02	1
Dibromofluoromethane (Surr)	97		75 - 131		11/11/23 03:02	1
Toluene-d8 (Surr)	98		80 - 120		11/11/23 03:02	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/15/23 09:09	11/16/23 18:56	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/15/23 09:09	11/16/23 18:56	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/15/23 09:09	11/16/23 18:56	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/15/23 09:09	11/16/23 18:56	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/15/23 09:09	11/16/23 18:56	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/15/23 09:09	11/16/23 18:56	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/15/23 09:09	11/16/23 18:56	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-15

Lab Sample ID: 860-61243-3

Date Collected: 11/09/23 12:42

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/15/23 09:09	11/16/23 18:56	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/15/23 09:09	11/16/23 18:56	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/15/23 09:09	11/16/23 18:56	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/15/23 09:09	11/16/23 18:56	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/15/23 09:09	11/16/23 18:56	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/15/23 09:09	11/16/23 18:56	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/15/23 09:09	11/16/23 18:56	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/15/23 09:09	11/16/23 18:56	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 18:56	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/15/23 09:09	11/16/23 18:56	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/15/23 09:09	11/16/23 18:56	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/15/23 09:09	11/16/23 18:56	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/15/23 09:09	11/16/23 18:56	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/15/23 09:09	11/16/23 18:56	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/15/23 09:09	11/16/23 18:56	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/15/23 09:09	11/16/23 18:56	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/15/23 09:09	11/16/23 18:56	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/15/23 09:09	11/16/23 18:56	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/15/23 09:09	11/16/23 18:56	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/15/23 09:09	11/16/23 18:56	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/15/23 09:09	11/16/23 18:56	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/15/23 09:09	11/16/23 18:56	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/15/23 09:09	11/16/23 18:56	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/15/23 09:09	11/16/23 18:56	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/15/23 09:09	11/16/23 18:56	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/15/23 09:09	11/16/23 18:56	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/15/23 09:09	11/16/23 18:56	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/15/23 09:09	11/16/23 18:56	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/15/23 09:09	11/16/23 18:56	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/15/23 09:09	11/16/23 18:56	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/15/23 09:09	11/16/23 18:56	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/15/23 09:09	11/16/23 18:56	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/15/23 09:09	11/16/23 18:56	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/15/23 09:09	11/16/23 18:56	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/15/23 09:09	11/16/23 18:56	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/15/23 09:09	11/16/23 18:56	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/15/23 09:09	11/16/23 18:56	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/15/23 09:09	11/16/23 18:56	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/15/23 09:09	11/16/23 18:56	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/15/23 09:09	11/16/23 18:56	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/15/23 09:09	11/16/23 18:56	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/15/23 09:09	11/16/23 18:56	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/15/23 09:09	11/16/23 18:56	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/15/23 09:09	11/16/23 18:56	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/15/23 09:09	11/16/23 18:56	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 18:56	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/15/23 09:09	11/16/23 18:56	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/15/23 09:09	11/16/23 18:56	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/15/23 09:09	11/16/23 18:56	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-15

Lab Sample ID: 860-61243-3

Date Collected: 11/09/23 12:42

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/15/23 09:09	11/16/23 18:56	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/15/23 09:09	11/16/23 18:56	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/15/23 09:09	11/16/23 18:56	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/15/23 09:09	11/16/23 18:56	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/15/23 09:09	11/16/23 18:56	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/15/23 09:09	11/16/23 18:56	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/15/23 09:09	11/16/23 18:56	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 18:56	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/15/23 09:09	11/16/23 18:56	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/15/23 09:09	11/16/23 18:56	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/15/23 09:09	11/16/23 18:56	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/15/23 09:09	11/16/23 18:56	1
Di-n-butyl phthalate	30.9		2.00	0.800	ug/L		11/15/23 09:09	11/16/23 18:56	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/15/23 09:09	11/16/23 18:56	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/15/23 09:09	11/16/23 18:56	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/15/23 09:09	11/16/23 18:56	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/15/23 09:09	11/16/23 18:56	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/15/23 09:09	11/16/23 18:56	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/15/23 09:09	11/16/23 18:56	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/15/23 09:09	11/16/23 18:56	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 18:56	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/15/23 09:09	11/16/23 18:56	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/15/23 09:09	11/16/23 18:56	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/15/23 09:09	11/16/23 18:56	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/15/23 09:09	11/16/23 18:56	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/15/23 09:09	11/16/23 18:56	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/15/23 09:09	11/16/23 18:56	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/15/23 09:09	11/16/23 18:56	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/15/23 09:09	11/16/23 18:56	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/15/23 09:09	11/16/23 18:56	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/15/23 09:09	11/16/23 18:56	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/15/23 09:09	11/16/23 18:56	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/15/23 09:09	11/16/23 18:56	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/15/23 09:09	11/16/23 18:56	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/15/23 09:09	11/16/23 18:56	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/15/23 09:09	11/16/23 18:56	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/15/23 09:09	11/16/23 18:56	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/15/23 09:09	11/16/23 18:56	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/15/23 09:09	11/16/23 18:56	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/15/23 09:09	11/16/23 18:56	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/15/23 09:09	11/16/23 18:56	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/15/23 09:09	11/16/23 18:56	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/15/23 09:09	11/16/23 18:56	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/15/23 09:09	11/16/23 18:56	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/15/23 09:09	11/16/23 18:56	1
o,o',o"-Triethylphosphorothioate	33.9		8.00	0.0579	ug/L		11/15/23 09:09	11/28/23 15:01	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/15/23 09:09	11/16/23 18:56	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/15/23 09:09	11/16/23 18:56	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/15/23 09:09	11/16/23 18:56	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-15

Lab Sample ID: 860-61243-3

Date Collected: 11/09/23 12:42

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/15/23 09:09	11/16/23 18:56	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/15/23 09:09	11/16/23 18:56	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/15/23 09:09	11/16/23 18:56	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/15/23 09:09	11/16/23 18:56	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/15/23 09:09	11/16/23 18:56	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/15/23 09:09	11/16/23 18:56	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/15/23 09:09	11/16/23 18:56	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/15/23 09:09	11/16/23 18:56	1
Pyridine	<0.725	U *	2.00	0.725	ug/L		11/15/23 09:09	11/16/23 18:56	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/15/23 09:09	11/16/23 18:56	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/15/23 09:09	11/16/23 18:56	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/15/23 09:09	11/16/23 18:56	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/15/23 09:09	11/16/23 18:56	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/15/23 09:09	11/16/23 18:56	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/15/23 09:09	11/16/23 18:56	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/15/23 09:09	11/16/23 18:56	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/15/23 09:09	11/16/23 18:56	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/15/23 09:09	11/16/23 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	130		31 - 132	11/15/23 09:09	11/16/23 18:56	1
2,4,6-Tribromophenol (Surr)	99		31 - 132	11/15/23 09:09	11/28/23 15:01	1
2-Fluorobiphenyl	88		40 - 130	11/15/23 09:09	11/16/23 18:56	1
2-Fluorobiphenyl	87		40 - 130	11/15/23 09:09	11/28/23 15:01	1
2-Fluorophenol (Surr)	40		21 - 114	11/15/23 09:09	11/16/23 18:56	1
2-Fluorophenol (Surr)	39		21 - 114	11/15/23 09:09	11/28/23 15:01	1
Nitrobenzene-d5 (Surr)	59		37 - 130	11/15/23 09:09	11/16/23 18:56	1
Nitrobenzene-d5 (Surr)	55		37 - 130	11/15/23 09:09	11/28/23 15:01	1
Phenol-d5 (Surr)	33		16 - 117	11/15/23 09:09	11/16/23 18:56	1
Phenol-d5 (Surr)	28		16 - 117	11/15/23 09:09	11/28/23 15:01	1
p-Terphenyl-d14	87		20 - 141	11/15/23 09:09	11/16/23 18:56	1
p-Terphenyl-d14	92		20 - 141	11/15/23 09:09	11/28/23 15:01	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1020		66.4	17.4	ug/L		11/14/23 10:57	11/18/23 06:19	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	153	S1+	37 - 133				11/14/23 10:57	11/18/23 06:19	100

Client Sample ID: MW-16

Lab Sample ID: 860-61243-4

Date Collected: 11/09/23 13:52

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/11/23 02:41	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/11/23 02:41	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/11/23 02:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/11/23 02:41	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/11/23 02:41	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-16

Lab Sample ID: 860-61243-4

Date Collected: 11/09/23 13:52

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/11/23 02:41	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/11/23 02:41	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/11/23 02:41	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/11/23 02:41	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/11/23 02:41	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/11/23 02:41	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/11/23 02:41	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/11/23 02:41	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/11/23 02:41	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/11/23 02:41	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/11/23 02:41	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/11/23 02:41	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/11/23 02:41	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/11/23 02:41	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/11/23 02:41	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/11/23 02:41	1
Acetone	<3.07	U	100	3.07	ug/L			11/11/23 02:41	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/11/23 02:41	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/11/23 02:41	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/11/23 02:41	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/11/23 02:41	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/11/23 02:41	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/11/23 02:41	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/11/23 02:41	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/11/23 02:41	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/11/23 02:41	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/11/23 02:41	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/11/23 02:41	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/11/23 02:41	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/11/23 02:41	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/11/23 02:41	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/11/23 02:41	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/11/23 02:41	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/11/23 02:41	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/11/23 02:41	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/11/23 02:41	1
Cyclohexane	4.33	J	5.00	1.29	ug/L			11/11/23 02:41	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/11/23 02:41	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/11/23 02:41	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/11/23 02:41	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/11/23 02:41	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/11/23 02:41	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/11/23 02:41	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/11/23 02:41	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/11/23 02:41	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/11/23 02:41	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/11/23 02:41	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/11/23 02:41	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/11/23 02:41	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-16

Lab Sample ID: 860-61243-4

Date Collected: 11/09/23 13:52

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/11/23 02:41	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/11/23 02:41	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/11/23 02:41	1
Tetrahydrofuran	5.13	J	10.0	1.83	ug/L			11/11/23 02:41	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/11/23 02:41	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/11/23 02:41	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/11/23 02:41	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/11/23 02:41	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/11/23 02:41	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/11/23 02:41	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/11/23 02:41	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/11/23 02:41	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/11/23 02:41	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/11/23 02:41	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/11/23 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		11/11/23 02:41	1
4-Bromofluorobenzene (Surr)	98		74 - 124		11/11/23 02:41	1
Dibromofluoromethane (Surr)	99		75 - 131		11/11/23 02:41	1
Toluene-d8 (Surr)	99		80 - 120		11/11/23 02:41	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<2.14	U	10.0	2.14	ug/L		11/15/23 09:09	11/16/23 23:26	5
1,2,4,5-Tetrachlorobenzene	<3.36	U	10.0	3.36	ug/L		11/15/23 09:09	11/16/23 23:26	5
1,2,4-Trichlorobenzene	<3.40	U	10.0	3.40	ug/L		11/15/23 09:09	11/16/23 23:26	5
1,2-Dichlorobenzene	<1.48	U	10.0	1.48	ug/L		11/15/23 09:09	11/16/23 23:26	5
1,3,5-Trinitrobenzene	<7.15	U	10.0	7.15	ug/L		11/15/23 09:09	11/16/23 23:26	5
1,3-Dichlorobenzene	<1.75	U	10.0	1.75	ug/L		11/15/23 09:09	11/16/23 23:26	5
1,3-Dinitrobenzene	<0.560	U	10.0	0.560	ug/L		11/15/23 09:09	11/16/23 23:26	5
1,4-Dichlorobenzene	<2.14	U	10.0	2.14	ug/L		11/15/23 09:09	11/16/23 23:26	5
1,4-Naphthoquinone	<9.25	U	40.0	9.25	ug/L		11/15/23 09:09	11/16/23 23:26	5
1-Naphthylamine	<1.16	U	10.0	1.16	ug/L		11/15/23 09:09	11/16/23 23:26	5
2,2'-oxybis[1-chloropropane]	<0.695	U	10.0	0.695	ug/L		11/15/23 09:09	11/16/23 23:26	5
2,3,4,6-Tetrachlorophenol	<0.871	U	10.0	0.871	ug/L		11/15/23 09:09	11/16/23 23:26	5
2,4,5-Trichlorophenol	<0.541	U	10.0	0.541	ug/L		11/15/23 09:09	11/16/23 23:26	5
2,4,6-Trichlorophenol	<0.676	U	10.0	0.676	ug/L		11/15/23 09:09	11/16/23 23:26	5
2,4-Dichlorophenol	<0.573	U	10.0	0.573	ug/L		11/15/23 09:09	11/16/23 23:26	5
2,4-Dimethylphenol	<0.738	U	10.0	0.738	ug/L		11/15/23 09:09	11/16/23 23:26	5
2,4-Dinitrophenol	<7.28	U	40.0	7.28	ug/L		11/15/23 09:09	11/16/23 23:26	5
2,4-Dinitrotoluene	<0.635	U	10.0	0.635	ug/L		11/15/23 09:09	11/16/23 23:26	5
2,6-Dichlorophenol	<0.628	U	10.0	0.628	ug/L		11/15/23 09:09	11/16/23 23:26	5
2,6-Dinitrotoluene	<0.993	U	10.0	0.993	ug/L		11/15/23 09:09	11/16/23 23:26	5
2-Acetylaminofluorene	<7.60	U	40.0	7.60	ug/L		11/15/23 09:09	11/16/23 23:26	5
2-Chloronaphthalene	<5.44	U	40.0	5.44	ug/L		11/15/23 09:09	11/16/23 23:26	5
2-Chlorophenol	<0.0676	U	10.0	0.0676	ug/L		11/15/23 09:09	11/16/23 23:26	5
2-Methylnaphthalene	<2.40	U	10.0	2.40	ug/L		11/15/23 09:09	11/16/23 23:26	5
2-Methylphenol	<0.797	U	10.0	0.797	ug/L		11/15/23 09:09	11/16/23 23:26	5
2-Naphthylamine	<2.98	U	40.0	2.98	ug/L		11/15/23 09:09	11/16/23 23:26	5

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-16

Lab Sample ID: 860-61243-4

Date Collected: 11/09/23 13:52

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.814	U	20.0	0.814	ug/L		11/15/23 09:09	11/16/23 23:26	5
2-Nitrophenol	<0.674	U	10.0	0.674	ug/L		11/15/23 09:09	11/16/23 23:26	5
2-Picoline	<1.08	U	10.0	1.08	ug/L		11/15/23 09:09	11/16/23 23:26	5
2-Toluidine	<4.67	U	40.0	4.67	ug/L		11/15/23 09:09	11/16/23 23:26	5
3 & 4 Methylphenol	<0.814	U	10.0	0.814	ug/L		11/15/23 09:09	11/16/23 23:26	5
3,3'-Dichlorobenzidine	<1.10	U	20.0	1.10	ug/L		11/15/23 09:09	11/16/23 23:26	5
3,3'-Dimethylbenzidine	<2.22	U *	40.0	2.22	ug/L		11/15/23 09:09	11/16/23 23:26	5
3-Methylcholanthrene	<0.793	U	40.0	0.793	ug/L		11/15/23 09:09	11/16/23 23:26	5
3-Nitroaniline	<1.72	U	10.0	1.72	ug/L		11/15/23 09:09	11/16/23 23:26	5
4,6-Dinitro-2-methylphenol	<3.68	U	40.0	3.68	ug/L		11/15/23 09:09	11/16/23 23:26	5
4-Aminobiphenyl	<1.48	U	40.0	1.48	ug/L		11/15/23 09:09	11/16/23 23:26	5
4-Bromophenyl phenyl ether	<0.836	U	10.0	0.836	ug/L		11/15/23 09:09	11/16/23 23:26	5
4-Chloro-3-methylphenol	<0.784	U	10.0	0.784	ug/L		11/15/23 09:09	11/16/23 23:26	5
4-Chloroaniline	<0.745	U	20.0	0.745	ug/L		11/15/23 09:09	11/16/23 23:26	5
4-Chlorophenyl phenyl ether	<1.16	U	10.0	1.16	ug/L		11/15/23 09:09	11/16/23 23:26	5
4-Nitroaniline	<1.23	U	20.0	1.23	ug/L		11/15/23 09:09	11/16/23 23:26	5
4-Nitroquinoline-1-oxide	<10.8	U	20.0	10.8	ug/L		11/15/23 09:09	11/16/23 23:26	5
7,12-Dimethylbenz(a)anthracene	<0.305	U	40.0	0.305	ug/L		11/15/23 09:09	11/16/23 23:26	5
Acenaphthene	<1.04	U	10.0	1.04	ug/L		11/15/23 09:09	11/16/23 23:26	5
Acenaphthylene	<1.07	U	10.0	1.07	ug/L		11/15/23 09:09	11/16/23 23:26	5
Acetophenone	<1.12	U	20.0	1.12	ug/L		11/15/23 09:09	11/16/23 23:26	5
alpha,alpha-Dimethyl phenethylamine	<20.0	U	20.0	20.0	ug/L		11/15/23 09:09	11/16/23 23:26	5
Aniline	<1.57	U	20.0	1.57	ug/L		11/15/23 09:09	11/16/23 23:26	5
Anthracene	<0.769	U	10.0	0.769	ug/L		11/15/23 09:09	11/16/23 23:26	5
Aramite, Total	<3.35	U	20.0	3.35	ug/L		11/15/23 09:09	11/16/23 23:26	5
Benzo[a]anthracene	<0.750	U	10.0	0.750	ug/L		11/15/23 09:09	11/16/23 23:26	5
Benzo[a]pyrene	<0.738	U	10.0	0.738	ug/L		11/15/23 09:09	11/16/23 23:26	5
Benzo[b]fluoranthene	<1.05	U	10.0	1.05	ug/L		11/15/23 09:09	11/16/23 23:26	5
Benzo[g,h,i]perylene	<0.714	U	10.0	0.714	ug/L		11/15/23 09:09	11/16/23 23:26	5
Benzo[k]fluoranthene	<0.831	U	10.0	0.831	ug/L		11/15/23 09:09	11/16/23 23:26	5
Benzyl alcohol	<22.5	U	40.0	22.5	ug/L		11/15/23 09:09	11/16/23 23:26	5
Bis(2-chloroethoxy)methane	<0.850	U	10.0	0.850	ug/L		11/15/23 09:09	11/16/23 23:26	5
Bis(2-chloroethyl)ether	<1.39	U	10.0	1.39	ug/L		11/15/23 09:09	11/16/23 23:26	5
Bis(2-ethylhexyl) phthalate	<1.12	U	10.0	1.12	ug/L		11/15/23 09:09	11/16/23 23:26	5
Butyl benzyl phthalate	<0.750	U	10.0	0.750	ug/L		11/15/23 09:09	11/16/23 23:26	5
Chrysene	<0.797	U	10.0	0.797	ug/L		11/15/23 09:09	11/16/23 23:26	5
Diallate	<3.01	U	40.0	3.01	ug/L		11/15/23 09:09	11/16/23 23:26	5
Dibenz(a,h)anthracene	<0.738	U	10.0	0.738	ug/L		11/15/23 09:09	11/16/23 23:26	5
Dibenzofuran	<1.68	U	10.0	1.68	ug/L		11/15/23 09:09	11/16/23 23:26	5
Diethyl phthalate	<0.589	U	10.0	0.589	ug/L		11/15/23 09:09	11/16/23 23:26	5
Dimethoate	<8.49	U	40.0	8.49	ug/L		11/15/23 09:09	11/16/23 23:26	5
Dimethyl phthalate	<0.713	U	10.0	0.713	ug/L		11/15/23 09:09	11/16/23 23:26	5
Di-n-butyl phthalate	27.5		10.0	4.00	ug/L		11/15/23 09:09	11/16/23 23:26	5
Di-n-octyl phthalate	<0.846	U	10.0	0.846	ug/L		11/15/23 09:09	11/16/23 23:26	5
Dinoseb	<10.0	U	20.0	10.0	ug/L		11/15/23 09:09	11/16/23 23:26	5
Diphenyl ether	1.94	J	40.0	1.82	ug/L		11/15/23 09:09	11/16/23 23:26	5
Disulfoton	<6.96	U	40.0	6.96	ug/L		11/15/23 09:09	11/16/23 23:26	5
Ethyl methanesulfonate	<6.91	U	20.0	6.91	ug/L		11/15/23 09:09	11/16/23 23:26	5
Ethyl Parathion	<7.07	U	20.0	7.07	ug/L		11/15/23 09:09	11/16/23 23:26	5

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-16

Lab Sample ID: 860-61243-4

Date Collected: 11/09/23 13:52

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	<40.0	U	40.0	40.0	ug/L		11/15/23 09:09	11/16/23 23:26	5
Fluoranthene	<0.738	U	10.0	0.738	ug/L		11/15/23 09:09	11/16/23 23:26	5
Fluorene	<1.03	U	10.0	1.03	ug/L		11/15/23 09:09	11/16/23 23:26	5
Hexachlorobenzene	<0.628	U	10.0	0.628	ug/L		11/15/23 09:09	11/16/23 23:26	5
Hexachlorobutadiene	<1.26	U	10.0	1.26	ug/L		11/15/23 09:09	11/16/23 23:26	5
Hexachlorocyclopentadiene	<2.16	U	10.0	2.16	ug/L		11/15/23 09:09	11/16/23 23:26	5
Hexachloroethane	<0.700	U	10.0	0.700	ug/L		11/15/23 09:09	11/16/23 23:26	5
Hexachloropropene	<1.07	U	20.0	1.07	ug/L		11/15/23 09:09	11/16/23 23:26	5
Indeno[1,2,3-cd]pyrene	<4.26	U	10.0	4.26	ug/L		11/15/23 09:09	11/16/23 23:26	5
Isophorone	<0.840	U	10.0	0.840	ug/L		11/15/23 09:09	11/16/23 23:26	5
Isosafrole	<12.3	U	30.0	12.3	ug/L		11/15/23 09:09	11/16/23 23:26	5
Methapyrilene	<0.905	U	10.0	0.905	ug/L		11/15/23 09:09	11/16/23 23:26	5
Methyl methanesulfonate	<0.305	U	10.0	0.305	ug/L		11/15/23 09:09	11/16/23 23:26	5
Methyl parathion	<8.22	U	20.0	8.22	ug/L		11/15/23 09:09	11/16/23 23:26	5
Naphthalene	<2.11	U	10.0	2.11	ug/L		11/15/23 09:09	11/16/23 23:26	5
Nitrobenzene	<4.67	U	10.0	4.67	ug/L		11/15/23 09:09	11/16/23 23:26	5
N-Nitro-o-toluidine	<6.55	U	40.0	6.55	ug/L		11/15/23 09:09	11/16/23 23:26	5
N-Nitrosodiethylamine	<7.70	U	20.0	7.70	ug/L		11/15/23 09:09	11/16/23 23:26	5
N-Nitrosodimethylamine	<0.628	U	10.0	0.628	ug/L		11/15/23 09:09	11/16/23 23:26	5
N-Nitrosodi-n-butylamine	<7.70	U	10.0	7.70	ug/L		11/15/23 09:09	11/16/23 23:26	5
N-Nitrosodi-n-propylamine	<0.807	U	10.0	0.807	ug/L		11/15/23 09:09	11/16/23 23:26	5
N-Nitrosodiphenylamine	<0.773	U	10.0	0.773	ug/L		11/15/23 09:09	11/16/23 23:26	5
N-Nitrosomethylethylamine	<0.994	U	10.0	0.994	ug/L		11/15/23 09:09	11/16/23 23:26	5
N-Nitrosomorpholine	<7.21	U	20.0	7.21	ug/L		11/15/23 09:09	11/16/23 23:26	5
N-Nitrosopiperidine	<7.20	U	20.0	7.20	ug/L		11/15/23 09:09	11/16/23 23:26	5
N-Nitrosopyrrolidine	<6.90	U	20.0	6.90	ug/L		11/15/23 09:09	11/16/23 23:26	5
p-Dimethylamino azobenzene	<0.290	U	40.0	0.290	ug/L		11/15/23 09:09	11/16/23 23:26	5
Pentachlorobenzene	<5.91	U	10.0	5.91	ug/L		11/15/23 09:09	11/16/23 23:26	5
Pentachloronitrobenzene	<6.33	U	10.0	6.33	ug/L		11/15/23 09:09	11/16/23 23:26	5
Pentachlorophenol	<2.20	U	10.0	2.20	ug/L		11/15/23 09:09	11/16/23 23:26	5
Phenacetin	<6.62	U	40.0	6.62	ug/L		11/15/23 09:09	11/16/23 23:26	5
Phenanthrene	<0.882	U	10.0	0.882	ug/L		11/15/23 09:09	11/16/23 23:26	5
Phenol	<1.01	U	20.0	1.01	ug/L		11/15/23 09:09	11/16/23 23:26	5
Phorate	<6.99	U	40.0	6.99	ug/L		11/15/23 09:09	11/16/23 23:26	5
p-Phenylene diamine	<50.0	U *-	50.0	50.0	ug/L		11/15/23 09:09	11/16/23 23:26	5
Pronamide	<6.93	U	20.0	6.93	ug/L		11/15/23 09:09	11/16/23 23:26	5
Pyrene	<0.797	U	10.0	0.797	ug/L		11/15/23 09:09	11/16/23 23:26	5
Pyridine	<3.62	U *-	10.0	3.62	ug/L		11/15/23 09:09	11/16/23 23:26	5
Safrole, Total	<0.916	U	20.0	0.916	ug/L		11/15/23 09:09	11/16/23 23:26	5
Sulfotepp	<7.16	U	20.0	7.16	ug/L		11/15/23 09:09	11/16/23 23:26	5
Thionazin	<7.18	U	40.0	7.18	ug/L		11/15/23 09:09	11/16/23 23:26	5
Aramite Peak 2	<13.7	U	20.0	13.7	ug/L		11/15/23 09:09	11/16/23 23:26	5
Isosafrole Peak 1	<12.3	U	30.0	12.3	ug/L		11/15/23 09:09	11/16/23 23:26	5
Diallate Peak 2	<3.01	U	40.0	3.01	ug/L		11/15/23 09:09	11/16/23 23:26	5
Isosafrole Peak 2	<10.6	U	30.0	10.6	ug/L		11/15/23 09:09	11/16/23 23:26	5
Diallate Peak 1	<3.37	U	40.0	3.37	ug/L		11/15/23 09:09	11/16/23 23:26	5
Aramite Peak 1	<3.35	U	20.0	3.35	ug/L		11/15/23 09:09	11/16/23 23:26	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		31 - 132	11/15/23 09:09	11/16/23 23:26	5

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-16

Date Collected: 11/09/23 13:52

Date Received: 11/10/23 10:09

Lab Sample ID: 860-61243-4

Matrix: Water

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		40 - 130	11/15/23 09:09	11/16/23 23:26	5
2-Fluorophenol (Surr)	31		21 - 114	11/15/23 09:09	11/16/23 23:26	5
Nitrobenzene-d5 (Surr)	47		37 - 130	11/15/23 09:09	11/16/23 23:26	5
Phenol-d5 (Surr)	22		16 - 117	11/15/23 09:09	11/16/23 23:26	5
p-Terphenyl-d14	86		20 - 141	11/15/23 09:09	11/16/23 23:26	5

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o,o',o"-Triethylphosphorothioate	414		400	2.90	ug/L		11/15/23 09:09	11/17/23 15:01	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	39		31 - 132				11/15/23 09:09	11/17/23 15:01	50
2-Fluorobiphenyl	54		40 - 130				11/15/23 09:09	11/17/23 15:01	50
2-Fluorophenol (Surr)	35		21 - 114				11/15/23 09:09	11/17/23 15:01	50
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130				11/15/23 09:09	11/17/23 15:01	50
Phenol-d5 (Surr)	0	S1-	16 - 117				11/15/23 09:09	11/17/23 15:01	50
p-Terphenyl-d14	79		20 - 141				11/15/23 09:09	11/17/23 15:01	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	448		67.8	17.8	ug/L		11/14/23 10:57	11/18/23 06:49	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	155	S1+	37 - 133				11/14/23 10:57	11/18/23 06:49	100

Client Sample ID: MW-7

Date Collected: 11/09/23 14:55

Date Received: 11/10/23 10:09

Lab Sample ID: 860-61243-5

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/11/23 02:21	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/11/23 02:21	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/11/23 02:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/11/23 02:21	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/11/23 02:21	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/11/23 02:21	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/11/23 02:21	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/11/23 02:21	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/11/23 02:21	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/11/23 02:21	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/11/23 02:21	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/11/23 02:21	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/11/23 02:21	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/11/23 02:21	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/11/23 02:21	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/11/23 02:21	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/11/23 02:21	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/11/23 02:21	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/11/23 02:21	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-7

Lab Sample ID: 860-61243-5

Date Collected: 11/09/23 14:55

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/11/23 02:21	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/11/23 02:21	1
Acetone	<3.07	U	100	3.07	ug/L			11/11/23 02:21	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/11/23 02:21	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/11/23 02:21	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/11/23 02:21	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/11/23 02:21	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/11/23 02:21	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/11/23 02:21	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/11/23 02:21	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/11/23 02:21	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/11/23 02:21	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/11/23 02:21	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/11/23 02:21	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/11/23 02:21	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/11/23 02:21	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/11/23 02:21	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/11/23 02:21	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/11/23 02:21	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/11/23 02:21	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/11/23 02:21	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/11/23 02:21	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/11/23 02:21	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/11/23 02:21	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/11/23 02:21	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/11/23 02:21	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/11/23 02:21	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/11/23 02:21	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/11/23 02:21	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/11/23 02:21	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/11/23 02:21	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/11/23 02:21	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/11/23 02:21	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/11/23 02:21	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/11/23 02:21	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/11/23 02:21	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/11/23 02:21	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/11/23 02:21	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/11/23 02:21	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/11/23 02:21	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/11/23 02:21	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/11/23 02:21	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/11/23 02:21	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/11/23 02:21	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/11/23 02:21	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/11/23 02:21	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/11/23 02:21	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/11/23 02:21	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/11/23 02:21	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-7

Lab Sample ID: 860-61243-5

Date Collected: 11/09/23 14:55

Matrix: Water

Date Received: 11/10/23 10:09

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		11/11/23 02:21	1
4-Bromofluorobenzene (Surr)	99		74 - 124		11/11/23 02:21	1
Dibromofluoromethane (Surr)	99		75 - 131		11/11/23 02:21	1
Toluene-d8 (Surr)	100		80 - 120		11/11/23 02:21	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/15/23 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		11/15/23 01:03	1
4-Bromofluorobenzene (Surr)	112		74 - 124		11/15/23 01:03	1
Dibromofluoromethane (Surr)	105		75 - 131		11/15/23 01:03	1
Toluene-d8 (Surr)	106		80 - 120		11/15/23 01:03	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/15/23 09:09	11/16/23 18:14	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/15/23 09:09	11/16/23 18:14	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/15/23 09:09	11/16/23 18:14	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/15/23 09:09	11/16/23 18:14	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/15/23 09:09	11/16/23 18:14	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/15/23 09:09	11/16/23 18:14	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/15/23 09:09	11/16/23 18:14	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/15/23 09:09	11/16/23 18:14	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/15/23 09:09	11/16/23 18:14	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/15/23 09:09	11/16/23 18:14	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/15/23 09:09	11/16/23 18:14	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/15/23 09:09	11/16/23 18:14	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/15/23 09:09	11/16/23 18:14	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/15/23 09:09	11/16/23 18:14	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/15/23 09:09	11/16/23 18:14	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 18:14	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/15/23 09:09	11/16/23 18:14	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/15/23 09:09	11/16/23 18:14	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/15/23 09:09	11/16/23 18:14	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/15/23 09:09	11/16/23 18:14	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/15/23 09:09	11/16/23 18:14	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/15/23 09:09	11/16/23 18:14	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/15/23 09:09	11/16/23 18:14	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/15/23 09:09	11/16/23 18:14	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/15/23 09:09	11/16/23 18:14	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/15/23 09:09	11/16/23 18:14	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/15/23 09:09	11/16/23 18:14	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/15/23 09:09	11/16/23 18:14	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/15/23 09:09	11/16/23 18:14	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/15/23 09:09	11/16/23 18:14	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/15/23 09:09	11/16/23 18:14	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/15/23 09:09	11/16/23 18:14	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/15/23 09:09	11/16/23 18:14	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/15/23 09:09	11/16/23 18:14	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-7

Lab Sample ID: 860-61243-5

Date Collected: 11/09/23 14:55

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/15/23 09:09	11/16/23 18:14	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/15/23 09:09	11/16/23 18:14	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/15/23 09:09	11/16/23 18:14	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/15/23 09:09	11/16/23 18:14	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/15/23 09:09	11/16/23 18:14	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/15/23 09:09	11/16/23 18:14	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/15/23 09:09	11/16/23 18:14	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/15/23 09:09	11/16/23 18:14	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/15/23 09:09	11/16/23 18:14	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/15/23 09:09	11/16/23 18:14	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/15/23 09:09	11/16/23 18:14	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/15/23 09:09	11/16/23 18:14	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/15/23 09:09	11/16/23 18:14	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/15/23 09:09	11/16/23 18:14	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/15/23 09:09	11/16/23 18:14	1
Anthracene	0.156	J	2.00	0.154	ug/L		11/15/23 09:09	11/16/23 18:14	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/15/23 09:09	11/16/23 18:14	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/15/23 09:09	11/16/23 18:14	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 18:14	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/15/23 09:09	11/16/23 18:14	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/15/23 09:09	11/16/23 18:14	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/15/23 09:09	11/16/23 18:14	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/15/23 09:09	11/16/23 18:14	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/15/23 09:09	11/16/23 18:14	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/15/23 09:09	11/16/23 18:14	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/15/23 09:09	11/16/23 18:14	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/15/23 09:09	11/16/23 18:14	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/15/23 09:09	11/16/23 18:14	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/15/23 09:09	11/16/23 18:14	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 18:14	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/15/23 09:09	11/16/23 18:14	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/15/23 09:09	11/16/23 18:14	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/15/23 09:09	11/16/23 18:14	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/15/23 09:09	11/16/23 18:14	1
Di-n-butyl phthalate	40.1		2.00	0.800	ug/L		11/15/23 09:09	11/16/23 18:14	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/15/23 09:09	11/16/23 18:14	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/15/23 09:09	11/16/23 18:14	1
Diphenyl ether	20.5		8.00	0.364	ug/L		11/15/23 09:09	11/16/23 18:14	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/15/23 09:09	11/16/23 18:14	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/15/23 09:09	11/16/23 18:14	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/15/23 09:09	11/16/23 18:14	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/15/23 09:09	11/16/23 18:14	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 18:14	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/15/23 09:09	11/16/23 18:14	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/15/23 09:09	11/16/23 18:14	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/15/23 09:09	11/16/23 18:14	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/15/23 09:09	11/16/23 18:14	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/15/23 09:09	11/16/23 18:14	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/15/23 09:09	11/16/23 18:14	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-7

Lab Sample ID: 860-61243-5

Date Collected: 11/09/23 14:55

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/15/23 09:09	11/16/23 18:14	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/15/23 09:09	11/16/23 18:14	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/15/23 09:09	11/16/23 18:14	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/15/23 09:09	11/16/23 18:14	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/15/23 09:09	11/16/23 18:14	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/15/23 09:09	11/16/23 18:14	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/15/23 09:09	11/16/23 18:14	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/15/23 09:09	11/16/23 18:14	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/15/23 09:09	11/16/23 18:14	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/15/23 09:09	11/16/23 18:14	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/15/23 09:09	11/16/23 18:14	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/15/23 09:09	11/16/23 18:14	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/15/23 09:09	11/16/23 18:14	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/15/23 09:09	11/16/23 18:14	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/15/23 09:09	11/16/23 18:14	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/15/23 09:09	11/16/23 18:14	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/15/23 09:09	11/16/23 18:14	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/15/23 09:09	11/16/23 18:14	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/15/23 09:09	11/16/23 18:14	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/15/23 09:09	11/16/23 18:14	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/15/23 09:09	11/16/23 18:14	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/15/23 09:09	11/16/23 18:14	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/15/23 09:09	11/16/23 18:14	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/15/23 09:09	11/16/23 18:14	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/15/23 09:09	11/16/23 18:14	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/15/23 09:09	11/16/23 18:14	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/15/23 09:09	11/16/23 18:14	1
p-Phenylene diamine	<10.0	U *-	10.0	10.0	ug/L		11/15/23 09:09	11/16/23 18:14	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/15/23 09:09	11/16/23 18:14	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/15/23 09:09	11/16/23 18:14	1
Pyridine	<0.725	U *-	2.00	0.725	ug/L		11/15/23 09:09	11/16/23 18:14	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/15/23 09:09	11/16/23 18:14	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/15/23 09:09	11/16/23 18:14	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/15/23 09:09	11/16/23 18:14	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/15/23 09:09	11/16/23 18:14	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/15/23 09:09	11/16/23 18:14	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/15/23 09:09	11/16/23 18:14	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/15/23 09:09	11/16/23 18:14	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/15/23 09:09	11/16/23 18:14	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/15/23 09:09	11/16/23 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	97		31 - 132	11/15/23 09:09	11/16/23 18:14	1
2-Fluorobiphenyl	117		40 - 130	11/15/23 09:09	11/16/23 18:14	1
2-Fluorophenol (Surr)	49		21 - 114	11/15/23 09:09	11/16/23 18:14	1
Nitrobenzene-d5 (Surr)	75		37 - 130	11/15/23 09:09	11/16/23 18:14	1
Phenol-d5 (Surr)	38		16 - 117	11/15/23 09:09	11/16/23 18:14	1
p-Terphenyl-d14	101		20 - 141	11/15/23 09:09	11/16/23 18:14	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-7

Lab Sample ID: 860-61243-5

Date Collected: 11/09/23 14:55

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.970		0.671	0.176	ug/L		11/14/23 10:57	11/16/23 19:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	123		37 - 133				11/14/23 10:57	11/16/23 19:05	1

Client Sample ID: TB-06 (110923)

Lab Sample ID: 860-61243-6

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 23:16	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 23:16	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 23:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 23:16	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 23:16	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 23:16	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 23:16	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 23:16	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 23:16	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 23:16	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 23:16	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 23:16	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 23:16	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 23:16	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 23:16	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 23:16	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 23:16	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 23:16	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 23:16	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 23:16	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 23:16	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 23:16	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 23:16	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 23:16	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 23:16	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 23:16	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 23:16	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 23:16	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 23:16	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 23:16	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 23:16	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 23:16	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 23:16	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 23:16	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 23:16	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 23:16	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 23:16	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 23:16	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 23:16	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: TB-06 (110923)

Lab Sample ID: 860-61243-6

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 23:16	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 23:16	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 23:16	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 23:16	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/10/23 23:16	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 23:16	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 23:16	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 23:16	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 23:16	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 23:16	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 23:16	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 23:16	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 23:16	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 23:16	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 23:16	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 23:16	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 23:16	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 23:16	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 23:16	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 23:16	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 23:16	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 23:16	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 23:16	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 23:16	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 23:16	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 23:16	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 23:16	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 23:16	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/10/23 23:16	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/10/23 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		11/10/23 23:16	1
4-Bromofluorobenzene (Surr)	99		74 - 124		11/10/23 23:16	1
Dibromofluoromethane (Surr)	100		75 - 131		11/10/23 23:16	1
Toluene-d8 (Surr)	99		80 - 120		11/10/23 23:16	1

Eurofins Houston

Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-61082-E-1 MS	Matrix Spike	92	98	99	98
860-61182-I-2 MS	Matrix Spike	105	105	105	101
860-61243-1	MW-12	98	100	100	99
860-61243-1 - RA	MW-12	113	111	116	104
860-61243-2	MW-14	98	98	99	99
860-61243-3	MW-15	96	99	97	98
860-61243-4	MW-16	98	98	99	99
860-61243-5	MW-7	98	99	99	100
860-61243-5 - RA	MW-7	106	112	105	106
860-61243-6	TB-06 (110923)	98	99	100	99
LCS 860-130579/3	Lab Control Sample	93	97	99	98
LCS 860-130977/3	Lab Control Sample	104	106	105	100
LCSD 860-130579/4	Lab Control Sample Dup	93	96	99	97
LCSD 860-130977/4	Lab Control Sample Dup	105	111	104	104
MB 860-130579/9	Method Blank	98	97	99	98
MB 860-130977/9	Method Blank	105	115	106	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	2FP (19-120)	FBP (43-130)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-61243-1	MW-12				112		
860-61243-2	MW-14				132		
860-61243-3	MW-15				153 S1+		
860-61243-4	MW-16				155 S1+		
860-61243-5	MW-7				123		
LCS 860-130949/2-A	Lab Control Sample	78	37	80	110	23	112
LCSD 860-130949/3-A	Lab Control Sample Dup	76	39	82	111	25	113
MB 860-130949/1-A	Method Blank	68	46	89	102	32	92

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
2FP = 2-Fluorophenol (Surr)
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (31-132)	FBP (40-130)	2FP (21-114)	NBZ (37-130)	PHL (16-117)	TPHd14 (20-141)
860-61243-1	MW-12	80	72	46	64	34	115
860-61243-2	MW-14	65	59	35	51	26	58
860-61243-2	MW-14	55	53	34	42	21	54
860-61243-3	MW-15	130	88	40	59	33	87
860-61243-3	MW-15	99	87	39	55	28	92
860-61243-4	MW-16	71	62	31	47	22	86
860-61243-4 - DL	MW-16	39	54	35	0 S1-	0 S1-	79
860-61243-5	MW-7	97	117	49	75	38	101
LCS 860-131120/2-A	Lab Control Sample	77	60	42	61	34	86
LCSD 860-131120/3-A	Lab Control Sample Dup	79	58	44	60	33	86
MB 860-131120/1-A	Method Blank	52	51	40	53	28	81

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-130579/9

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/10/23 22:14	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/10/23 22:14	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/10/23 22:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/10/23 22:14	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/10/23 22:14	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/10/23 22:14	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/10/23 22:14	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/10/23 22:14	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/10/23 22:14	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/10/23 22:14	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/10/23 22:14	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/10/23 22:14	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/10/23 22:14	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/10/23 22:14	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/10/23 22:14	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/10/23 22:14	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/10/23 22:14	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/10/23 22:14	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/10/23 22:14	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/10/23 22:14	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/10/23 22:14	1
Acetone	<3.07	U	100	3.07	ug/L			11/10/23 22:14	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/10/23 22:14	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/10/23 22:14	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/10/23 22:14	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/10/23 22:14	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/10/23 22:14	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/10/23 22:14	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/10/23 22:14	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/10/23 22:14	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/10/23 22:14	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/10/23 22:14	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/10/23 22:14	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/10/23 22:14	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/10/23 22:14	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/10/23 22:14	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/10/23 22:14	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/10/23 22:14	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/10/23 22:14	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/10/23 22:14	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/10/23 22:14	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/10/23 22:14	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/10/23 22:14	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/10/23 22:14	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/10/23 22:14	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/10/23 22:14	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/10/23 22:14	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/10/23 22:14	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130579/9

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/10/23 22:14	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/10/23 22:14	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/10/23 22:14	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/10/23 22:14	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/10/23 22:14	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/10/23 22:14	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/10/23 22:14	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/10/23 22:14	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/10/23 22:14	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/10/23 22:14	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/10/23 22:14	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/10/23 22:14	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/10/23 22:14	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/10/23 22:14	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/10/23 22:14	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/10/23 22:14	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/10/23 22:14	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/10/23 22:14	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/10/23 22:14	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/10/23 22:14	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/10/23 22:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		11/10/23 22:14	1
4-Bromofluorobenzene (Surr)	97		74 - 124		11/10/23 22:14	1
Dibromofluoromethane (Surr)	99		75 - 131		11/10/23 22:14	1
Toluene-d8 (Surr)	98		80 - 120		11/10/23 22:14	1

Lab Sample ID: LCS 860-130579/3

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	48.65		ug/L		97	72 - 125
1,1,1-Trichloroethane	50.0	46.86		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.33		ug/L		99	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.50		ug/L		107	60 - 140
1,1,2-Trichloroethane	50.0	48.76		ug/L		98	70 - 130
1,1-Dichloroethane	50.0	46.80		ug/L		94	70 - 130
1,1-Dichloroethene	50.0	47.10		ug/L		94	50 - 150
1,2,3-Trichloropropane	50.0	46.94		ug/L		94	75 - 125
1,2,4-Trimethylbenzene	50.0	48.26		ug/L		97	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	52.80		ug/L		106	59 - 125
1,2-Dibromoethane	50.0	50.28		ug/L		101	73 - 125
1,2-Dichloroethane	50.0	47.19		ug/L		94	72 - 130
1,2-Dichloropropane	50.0	47.74		ug/L		95	74 - 125
1,3,5-Trimethylbenzene	50.0	48.24		ug/L		96	60 - 140
1,3-Butadiene	50.0	47.80		ug/L		96	60 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130579/3

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	49.00		ug/L		98	70 - 130
2-Butanone (MEK)	250	233.1		ug/L		93	60 - 140
2-Hexanone (MBK)	250	227.2		ug/L		91	60 - 140
2-Propanol	500	408.9		ug/L		82	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	40.64		ug/L		81	70 - 130
4-Methyl-2-pentanone	250	227.6		ug/L		91	60 - 140
Acetone	250	225.8		ug/L		90	60 - 140
Acetonitrile	500	408.0		ug/L		82	60 - 140
Acrolein	250	220.7		ug/L		88	60 - 140
Acrylonitrile	500	457.2		ug/L		91	60 - 140
alpha-Chlorotoluene	50.0	50.66		ug/L		101	75 - 125
Benzene	50.0	47.20		ug/L		94	75 - 125
Bromodichloromethane	50.0	47.19		ug/L		94	75 - 125
Bromoform	50.0	49.77		ug/L		100	70 - 130
Bromomethane	50.0	50.86		ug/L		102	60 - 140
Carbon disulfide	50.0	45.99		ug/L		92	60 - 140
Carbon tetrachloride	50.0	45.91		ug/L		92	70 - 130
Chlorobenzene	50.0	48.71		ug/L		97	65 - 135
Chlorodibromomethane	50.0	48.88		ug/L		98	73 - 125
Chloroethane	50.0	43.14		ug/L		86	60 - 140
Chloroform	50.0	47.24		ug/L		94	70 - 121
Chloromethane	50.0	45.41		ug/L		91	60 - 140
Chloroprene	50.0	44.47		ug/L		89	70 - 130
cis-1,2-Dichloroethene	50.0	46.49		ug/L		93	75 - 125
cis-1,3-Dichloropropene	50.0	48.00		ug/L		96	74 - 125
Cumene (isopropylbenzene)	50.0	48.07		ug/L		96	75 - 125
Cyclohexane	50.0	47.24		ug/L		94	70 - 130
Dibromomethane	50.0	50.28		ug/L		101	69 - 127
Dichlorodifluoromethane	50.0	51.28		ug/L		103	50 - 150
Ethyl methacrylate	50.0	47.73		ug/L		95	70 - 130
Ethylbenzene	50.0	47.36		ug/L		95	75 - 125
Hexane	50.0	48.61		ug/L		97	72 - 125
Iodomethane	50.0	52.40		ug/L		105	75 - 125
Isobutanol	1240	1110		ug/L		90	60 - 140
Methacrylonitrile	500	480.0		ug/L		96	70 - 130
Methyl methacrylate	100	96.51		ug/L		97	70 - 130
Methyl tert-butyl ether	50.0	46.62		ug/L		93	65 - 135
Methylene Chloride	50.0	46.54		ug/L		93	71 - 125
Propionitrile	500	471.9		ug/L		94	70 - 130
Propylbenzene	50.0	49.26		ug/L		99	75 - 125
Styrene	50.0	48.32		ug/L		97	75 - 125
Tetrachloroethene	50.0	49.63		ug/L		99	71 - 125
Tetrahydrofuran	100	96.66		ug/L		97	75 - 125
Toluene	50.0	47.68		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	48.28		ug/L		97	75 - 125
trans-1,3-Dichloropropene	50.0	47.43		ug/L		95	66 - 125
trans-1,4-Dichloro-2-butene	50.0	47.25		ug/L		94	70 - 130
Trichloroethene	50.0	50.58		ug/L		101	75 - 135
Trichlorofluoromethane	50.0	52.50		ug/L		105	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130579/3

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	224.0		ug/L		90	60 - 140
Vinyl chloride	50.0	48.22		ug/L		96	60 - 140
Xylenes, Total	100	94.18		ug/L		94	75 - 125
m,p-Xylenes	0.0500	0.04718		mg/L		94	75 - 125
o-Xylene	0.0500	0.04700		mg/L		94	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 860-130579/4

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	45.49		ug/L		91	72 - 125	7	25
1,1,1-Trichloroethane	50.0	42.64		ug/L		85	70 - 130	9	25
1,1,2,2-Tetrachloroethane	50.0	45.34		ug/L		91	74 - 125	8	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.17		ug/L		102	60 - 140	4	25
1,1,2-Trichloroethane	50.0	46.49		ug/L		93	70 - 130	5	25
1,1-Dichloroethane	50.0	43.45		ug/L		87	70 - 130	7	25
1,1-Dichloroethene	50.0	43.24		ug/L		86	50 - 150	9	25
1,2,3-Trichloropropane	50.0	43.02		ug/L		86	75 - 125	9	25
1,2,4-Trimethylbenzene	50.0	43.54		ug/L		87	75 - 125	10	25
1,2-Dibromo-3-Chloropropane	50.0	49.31		ug/L		99	59 - 125	7	25
1,2-Dibromoethane	50.0	47.45		ug/L		95	73 - 125	6	25
1,2-Dichloroethane	50.0	45.40		ug/L		91	72 - 130	4	25
1,2-Dichloropropane	50.0	45.35		ug/L		91	74 - 125	5	25
1,3,5-Trimethylbenzene	50.0	43.63		ug/L		87	60 - 140	10	25
1,3-Butadiene	50.0	42.76		ug/L		86	60 - 150	11	25
2,2,4-Trimethylpentane	50.0	44.88		ug/L		90	70 - 130	9	25
2-Butanone (MEK)	250	217.3		ug/L		87	60 - 140	7	25
2-Hexanone (MBK)	250	209.4		ug/L		84	60 - 140	8	25
2-Propanol	500	394.8		ug/L		79	70 - 120	4	25
3-Chloropropene (Allyl Chloride)	50.0	38.10		ug/L		76	70 - 130	6	25
4-Methyl-2-pentanone	250	213.6		ug/L		85	60 - 140	6	25
Acetone	250	209.7		ug/L		84	60 - 140	7	25
Acetonitrile	500	382.5		ug/L		76	60 - 140	6	25
Acrolein	250	204.6		ug/L		82	60 - 140	8	25
Acrylonitrile	500	433.4		ug/L		87	60 - 140	5	25
alpha-Chlorotoluene	50.0	44.02		ug/L		88	75 - 125	14	25
Benzene	50.0	44.56		ug/L		89	75 - 125	6	25
Bromodichloromethane	50.0	44.73		ug/L		89	75 - 125	5	25
Bromoform	50.0	46.64		ug/L		93	70 - 130	7	25
Bromomethane	50.0	47.97		ug/L		96	60 - 140	6	25
Carbon disulfide	50.0	42.64		ug/L		85	60 - 140	8	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130579/4

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	42.20		ug/L		84	70 - 130	8	25
Chlorobenzene	50.0	45.02		ug/L		90	65 - 135	8	25
Chlorodibromomethane	50.0	45.97		ug/L		92	73 - 125	6	25
Chloroethane	50.0	41.49		ug/L		83	60 - 140	4	25
Chloroform	50.0	44.61		ug/L		89	70 - 121	6	25
Chloromethane	50.0	42.48		ug/L		85	60 - 140	7	25
Chloroprene	50.0	41.37		ug/L		83	70 - 130	7	25
cis-1,2-Dichloroethene	50.0	43.19		ug/L		86	75 - 125	7	25
cis-1,3-Dichloropropene	50.0	45.17		ug/L		90	74 - 125	6	25
Cumene (isopropylbenzene)	50.0	44.11		ug/L		88	75 - 125	9	25
Cyclohexane	50.0	43.11		ug/L		86	70 - 130	9	25
Dibromomethane	50.0	47.92		ug/L		96	69 - 127	5	25
Dichlorodifluoromethane	50.0	45.91		ug/L		92	50 - 150	11	25
Ethyl methacrylate	50.0	44.77		ug/L		90	70 - 130	6	25
Ethylbenzene	50.0	43.84		ug/L		88	75 - 125	8	25
Hexane	50.0	45.41		ug/L		91	72 - 125	7	25
Iodomethane	50.0	49.86		ug/L		100	75 - 125	5	25
Isobutanol	1240	1074		ug/L		87	60 - 140	3	25
Methacrylonitrile	500	451.2		ug/L		90	70 - 130	6	25
Methyl methacrylate	100	90.80		ug/L		91	70 - 130	6	25
Methyl tert-butyl ether	50.0	44.56		ug/L		89	65 - 135	5	25
Methylene Chloride	50.0	45.51		ug/L		91	71 - 125	2	25
Propionitrile	500	441.0		ug/L		88	70 - 130	7	25
Propylbenzene	50.0	43.43		ug/L		87	75 - 125	13	25
Styrene	50.0	44.56		ug/L		89	75 - 125	8	25
Tetrachloroethene	50.0	45.96		ug/L		92	71 - 125	8	25
Tetrahydrofuran	100	85.17		ug/L		85	75 - 125	13	25
Toluene	50.0	43.86		ug/L		88	70 - 130	8	25
trans-1,2-Dichloroethene	50.0	45.26		ug/L		91	75 - 125	6	25
trans-1,3-Dichloropropene	50.0	44.57		ug/L		89	66 - 125	6	25
trans-1,4-Dichloro-2-butene	50.0	42.92		ug/L		86	70 - 130	10	25
Trichloroethene	50.0	47.27		ug/L		95	75 - 135	7	25
Trichlorofluoromethane	50.0	46.02		ug/L		92	60 - 140	13	25
Vinyl acetate	250	191.7		ug/L		77	60 - 140	16	25
Vinyl chloride	50.0	44.16		ug/L		88	60 - 140	9	25
Xylenes, Total	100	86.66		ug/L		87	75 - 125	8	25
m,p-Xylenes	0.0500	0.04329		mg/L		87	75 - 125	9	25
o-Xylene	0.0500	0.04337		mg/L		87	75 - 125	8	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	97		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61082-E-1 MS

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	48.58		ug/L		97	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	45.52		ug/L		91	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	49.83		ug/L		100	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	52.28		ug/L		105	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	48.62		ug/L		97	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	46.23		ug/L		92	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	45.66		ug/L		91	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	45.32		ug/L		91	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	48.02		ug/L		96	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	52.95		ug/L		106	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	49.57		ug/L		99	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	46.44		ug/L		93	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	46.74		ug/L		93	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	47.79		ug/L		96	70 - 125
1,3-Butadiene	<0.568	U	50.0	48.14		ug/L		96	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	46.68		ug/L		93	70 - 130
2-Butanone (MEK)	<8.28	U	250	224.7		ug/L		90	60 - 140
2-Hexanone (MBK)	<7.45	U	250	223.1		ug/L		89	60 - 140
2-Propanol	<5.23	U	500	414.8		ug/L		83	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	39.37		ug/L		79	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	222.2		ug/L		89	60 - 140
Acetone	<3.07	U	250	204.7		ug/L		82	60 - 140
Acetonitrile	<14.6	U	500	395.2		ug/L		79	60 - 140
Acrolein	<11.1	U	250	219.4		ug/L		88	50 - 150
Acrylonitrile	<14.3	U	500	449.3		ug/L		90	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	51.29		ug/L		103	70 - 130
Benzene	<0.460	U	50.0	46.75		ug/L		94	66 - 142
Bromodichloromethane	<0.552	U	50.0	47.04		ug/L		94	75 - 125
Bromoform	<0.633	U	50.0	49.08		ug/L		98	75 - 125
Bromomethane	<1.42	U	50.0	50.38		ug/L		101	60 - 140
Carbon disulfide	<1.65	U	50.0	44.26		ug/L		89	60 - 140
Carbon tetrachloride	<0.896	U	50.0	43.77		ug/L		88	62 - 125
Chlorobenzene	<0.455	U	50.0	48.23		ug/L		96	60 - 133
Chlorodibromomethane	<0.547	U	50.0	48.28		ug/L		97	73 - 125
Chloroethane	<1.98	U	50.0	43.04		ug/L		86	60 - 140
Chloroform	<0.464	U	50.0	46.53		ug/L		93	70 - 130
Chloromethane	<2.04	U	50.0	43.59		ug/L		87	60 - 140
Chloroprene	<0.598	U	50.0	43.28		ug/L		87	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	45.28		ug/L		91	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	47.48		ug/L		95	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	47.01		ug/L		94	75 - 125
Cyclohexane	<1.29	U	50.0	45.09		ug/L		90	70 - 130
Dibromomethane	<0.357	U	50.0	49.20		ug/L		98	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	47.58		ug/L		95	70 - 130
Ethyl methacrylate	<1.12	U	50.0	47.01		ug/L		94	70 - 130
Ethylbenzene	<0.385	U	50.0	47.14		ug/L		94	75 - 125
Hexane	<0.517	U	50.0	46.93		ug/L		94	72 - 125
Iodomethane	<6.52	U	50.0	53.43		ug/L		107	75 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61082-E-1 MS

Matrix: Water

Analysis Batch: 130579

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Isobutanol	<17.1	U	1240	1136		ug/L		92	60 - 140
Methacrylonitrile	<2.72	U	500	468.3		ug/L		94	70 - 130
Methyl methacrylate	<2.25	U	100	95.05		ug/L		95	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	45.66		ug/L		91	65 - 135
Methylene Chloride	<1.73	U	50.0	44.89		ug/L		90	75 - 125
Propionitrile	<3.34	U	500	462.6		ug/L		93	70 - 130
Propylbenzene	<0.429	U	50.0	47.74		ug/L		95	75 - 125
Styrene	<0.619	U	50.0	48.02		ug/L		96	75 - 125
Tetrachloroethene	<0.655	U	50.0	49.02		ug/L		98	71 - 125
Tetrahydrofuran	<1.83	U	100	89.22		ug/L		89	75 - 125
Toluene	<0.475	U	50.0	47.15		ug/L		94	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	46.40		ug/L		93	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	46.97		ug/L		94	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	41.43		ug/L		83	70 - 130
Trichloroethene	<0.791	U	50.0	48.90		ug/L		98	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	51.52		ug/L		103	60 - 140
Vinyl acetate	<2.14	U	250	218.1		ug/L		87	60 - 140
Vinyl chloride	<0.428	U	50.0	47.35		ug/L		95	60 - 140
Xylenes, Total	<1.24	U	100	93.52		ug/L		94	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.04684		mg/L		94	75 - 125
o-Xylene	<0.000502	U	0.0500	0.04668		mg/L		93	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: MB 860-130977/9

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/15/23 00:25	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/15/23 00:25	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/15/23 00:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/15/23 00:25	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/15/23 00:25	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/15/23 00:25	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/15/23 00:25	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/15/23 00:25	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/15/23 00:25	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/15/23 00:25	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/15/23 00:25	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/15/23 00:25	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/15/23 00:25	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/15/23 00:25	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/15/23 00:25	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130977/9

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/15/23 00:25	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/15/23 00:25	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/15/23 00:25	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/15/23 00:25	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/15/23 00:25	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/15/23 00:25	1
Acetone	<3.07	U	100	3.07	ug/L			11/15/23 00:25	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/15/23 00:25	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/15/23 00:25	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/15/23 00:25	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/15/23 00:25	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/15/23 00:25	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/15/23 00:25	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/15/23 00:25	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/15/23 00:25	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/15/23 00:25	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/15/23 00:25	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/15/23 00:25	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/15/23 00:25	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/15/23 00:25	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/15/23 00:25	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/15/23 00:25	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/15/23 00:25	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/15/23 00:25	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/15/23 00:25	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/15/23 00:25	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/15/23 00:25	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/15/23 00:25	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/15/23 00:25	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/15/23 00:25	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/15/23 00:25	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/15/23 00:25	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/15/23 00:25	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/15/23 00:25	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/15/23 00:25	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/15/23 00:25	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/15/23 00:25	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/15/23 00:25	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/15/23 00:25	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/15/23 00:25	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/15/23 00:25	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/15/23 00:25	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/15/23 00:25	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/15/23 00:25	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/15/23 00:25	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/15/23 00:25	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/15/23 00:25	1
Trichloroethene	<0.791	U	5.00	0.791	ug/L			11/15/23 00:25	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/15/23 00:25	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130977/9

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/15/23 00:25	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/15/23 00:25	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/15/23 00:25	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/15/23 00:25	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/15/23 00:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		11/15/23 00:25	1
4-Bromofluorobenzene (Surr)	115		74 - 124		11/15/23 00:25	1
Dibromofluoromethane (Surr)	106		75 - 131		11/15/23 00:25	1
Toluene-d8 (Surr)	104		80 - 120		11/15/23 00:25	1

Lab Sample ID: LCS 860-130977/3

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	50.65		ug/L		101	72 - 125
1,1,1-Trichloroethane	50.0	53.66		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.41		ug/L		105	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.27		ug/L		95	60 - 140
1,1,2-Trichloroethane	50.0	52.21		ug/L		104	70 - 130
1,1-Dichloroethane	50.0	54.63		ug/L		109	70 - 130
1,1-Dichloroethene	50.0	48.27		ug/L		97	50 - 150
1,2,3-Trichloropropane	50.0	55.57		ug/L		111	75 - 125
1,2,4-Trimethylbenzene	50.0	51.91		ug/L		104	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	44.18		ug/L		88	59 - 125
1,2-Dibromoethane	50.0	52.24		ug/L		104	73 - 125
1,2-Dichloroethane	50.0	55.19		ug/L		110	72 - 130
1,2-Dichloropropane	50.0	53.31		ug/L		107	74 - 125
1,3,5-Trimethylbenzene	50.0	52.65		ug/L		105	60 - 140
1,3-Butadiene	50.0	47.65		ug/L		95	60 - 150
2,2,4-Trimethylpentane	50.0	61.43		ug/L		123	70 - 130
2-Butanone (MEK)	250	278.9		ug/L		112	60 - 140
2-Hexanone (MBK)	250	273.3		ug/L		109	60 - 140
2-Propanol	500	593.1		ug/L		119	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	51.31		ug/L		103	70 - 130
4-Methyl-2-pentanone	250	277.2		ug/L		111	60 - 140
Acetone	250	278.0		ug/L		111	60 - 140
Acetonitrile	500	690.0		ug/L		138	60 - 140
Acrolein	250	205.3		ug/L		82	60 - 140
Acrylonitrile	500	607.3		ug/L		121	60 - 140
alpha-Chlorotoluene	50.0	42.82		ug/L		86	75 - 125
Benzene	50.0	53.80		ug/L		108	75 - 125
Bromodichloromethane	50.0	53.83		ug/L		108	75 - 125
Bromoform	50.0	42.60		ug/L		85	70 - 130
Bromomethane	50.0	39.23		ug/L		78	60 - 140
Carbon disulfide	50.0	49.87		ug/L		100	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130977/3

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	50.0	50.24		ug/L		100	70 - 130
Chlorobenzene	50.0	49.16		ug/L		98	65 - 135
Chlorodibromomethane	50.0	50.82		ug/L		102	73 - 125
Chloroethane	50.0	51.36		ug/L		103	60 - 140
Chloroform	50.0	54.82		ug/L		110	70 - 121
Chloromethane	50.0	47.80		ug/L		96	60 - 140
Chloroprene	50.0	55.45		ug/L		111	70 - 130
cis-1,2-Dichloroethene	50.0	53.87		ug/L		108	75 - 125
cis-1,3-Dichloropropene	50.0	54.93		ug/L		110	74 - 125
Cumene (isopropylbenzene)	50.0	49.97		ug/L		100	75 - 125
Cyclohexane	50.0	48.82		ug/L		98	70 - 130
Dibromomethane	50.0	55.32		ug/L		111	69 - 127
Dichlorodifluoromethane	50.0	34.25		ug/L		69	50 - 150
Ethyl methacrylate	50.0	57.02		ug/L		114	70 - 130
Ethylbenzene	50.0	50.64		ug/L		101	75 - 125
Hexane	50.0	49.21		ug/L		98	72 - 125
Iodomethane	50.0	52.84		ug/L		106	75 - 125
Methacrylonitrile	500	596.9		ug/L		119	70 - 130
Methyl methacrylate	100	123.2		ug/L		123	70 - 130
Methyl tert-butyl ether	50.0	58.05		ug/L		116	65 - 135
Methylene Chloride	50.0	50.92		ug/L		102	71 - 125
Propionitrile	500	646.7		ug/L		129	70 - 130
Propylbenzene	50.0	52.28		ug/L		105	75 - 125
Styrene	50.0	50.56		ug/L		101	75 - 125
Tetrachloroethene	50.0	48.07		ug/L		96	71 - 125
Tetrahydrofuran	100	106.6		ug/L		107	75 - 125
Toluene	50.0	49.93		ug/L		100	70 - 130
trans-1,2-Dichloroethene	50.0	53.31		ug/L		107	75 - 125
trans-1,3-Dichloropropene	50.0	53.27		ug/L		107	66 - 125
trans-1,4-Dichloro-2-butene	50.0	57.33		ug/L		115	70 - 130
Trichloroethene	50.0	51.08		ug/L		102	75 - 135
Trichlorofluoromethane	50.0	51.64		ug/L		103	60 - 140
Vinyl acetate	250	280.8		ug/L		112	60 - 140
Vinyl chloride	50.0	51.96		ug/L		104	60 - 140
Xylenes, Total	100	101.8		ug/L		102	75 - 125
m,p-Xylenes	0.0500	0.05090		mg/L		102	75 - 125
o-Xylene	0.0500	0.05088		mg/L		102	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		63 - 144
4-Bromofluorobenzene (Surr)	106		74 - 124
Dibromofluoromethane (Surr)	105		75 - 131
Toluene-d8 (Surr)	100		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130977/4

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	51.62		ug/L		103	72 - 125	2	25
1,1,1-Trichloroethane	50.0	54.25		ug/L		108	70 - 130	1	25
1,1,2,2-Tetrachloroethane	50.0	56.01		ug/L		112	74 - 125	7	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.24		ug/L		96	60 - 140	2	25
1,1,2-Trichloroethane	50.0	53.79		ug/L		108	70 - 130	3	25
1,1-Dichloroethane	50.0	57.09		ug/L		114	70 - 130	4	25
1,1-Dichloroethene	50.0	50.87		ug/L		102	50 - 150	5	25
1,2,3-Trichloropropane	50.0	59.43		ug/L		119	75 - 125	7	25
1,2,4-Trimethylbenzene	50.0	56.96		ug/L		114	75 - 125	9	25
1,2-Dibromo-3-Chloropropane	50.0	50.01		ug/L		100	59 - 125	12	25
1,2-Dibromoethane	50.0	53.42		ug/L		107	73 - 125	2	25
1,2-Dichloroethane	50.0	55.30		ug/L		111	72 - 130	0	25
1,2-Dichloropropane	50.0	55.30		ug/L		111	74 - 125	4	25
1,3,5-Trimethylbenzene	50.0	57.25		ug/L		114	60 - 140	8	25
1,3-Butadiene	50.0	45.88		ug/L		92	60 - 150	4	25
2,2,4-Trimethylpentane	50.0	58.48		ug/L		117	70 - 130	5	25
2-Butanone (MEK)	250	278.7		ug/L		111	60 - 140	0	25
2-Hexanone (MBK)	250	282.0		ug/L		113	60 - 140	3	25
2-Propanol	500	586.7		ug/L		117	70 - 120	1	25
3-Chloropropene (Allyl Chloride)	50.0	54.35		ug/L		109	70 - 130	6	25
4-Methyl-2-pentanone	250	280.5		ug/L		112	60 - 140	1	25
Acetone	250	280.7		ug/L		112	60 - 140	1	25
Acetonitrile	500	679.0		ug/L		136	60 - 140	2	25
Acrolein	250	212.2		ug/L		85	60 - 140	3	25
Acrylonitrile	500	611.8		ug/L		122	60 - 140	1	25
alpha-Chlorotoluene	50.0	46.95		ug/L		94	75 - 125	9	25
Benzene	50.0	54.28		ug/L		109	75 - 125	1	25
Bromodichloromethane	50.0	54.68		ug/L		109	75 - 125	2	25
Bromoform	50.0	43.63		ug/L		87	70 - 130	2	25
Bromomethane	50.0	36.80		ug/L		74	60 - 140	6	25
Carbon disulfide	50.0	50.72		ug/L		101	60 - 140	2	25
Carbon tetrachloride	50.0	50.33		ug/L		101	70 - 130	0	25
Chlorobenzene	50.0	50.34		ug/L		101	65 - 135	2	25
Chlorodibromomethane	50.0	51.22		ug/L		102	73 - 125	1	25
Chloroethane	50.0	47.39		ug/L		95	60 - 140	8	25
Chloroform	50.0	55.00		ug/L		110	70 - 121	0	25
Chloromethane	50.0	45.88		ug/L		92	60 - 140	4	25
Chloroprene	50.0	56.99		ug/L		114	70 - 130	3	25
cis-1,2-Dichloroethene	50.0	54.59		ug/L		109	75 - 125	1	25
cis-1,3-Dichloropropene	50.0	54.89		ug/L		110	74 - 125	0	25
Cumene (isopropylbenzene)	50.0	52.06		ug/L		104	75 - 125	4	25
Cyclohexane	50.0	49.61		ug/L		99	70 - 130	2	25
Dibromomethane	50.0	56.03		ug/L		112	69 - 127	1	25
Dichlorodifluoromethane	50.0	32.94		ug/L		66	50 - 150	4	25
Ethyl methacrylate	50.0	58.09		ug/L		116	70 - 130	2	25
Ethylbenzene	50.0	52.06		ug/L		104	75 - 125	3	25
Hexane	50.0	52.46		ug/L		105	72 - 125	6	25
Iodomethane	50.0	53.49		ug/L		107	75 - 125	1	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130977/4

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methacrylonitrile	500	596.6		ug/L		119	70 - 130	0	25
Methyl methacrylate	100	125.1		ug/L		125	70 - 130	2	25
Methyl tert-butyl ether	50.0	58.30		ug/L		117	65 - 135	0	25
Methylene Chloride	50.0	52.07		ug/L		104	71 - 125	2	25
Propionitrile	500	647.5		ug/L		129	70 - 130	0	25
Propylbenzene	50.0	56.10		ug/L		112	75 - 125	7	25
Styrene	50.0	52.75		ug/L		105	75 - 125	4	25
Tetrachloroethene	50.0	49.05		ug/L		98	71 - 125	2	25
Tetrahydrofuran	100	106.5		ug/L		107	75 - 125	0	25
Toluene	50.0	52.49		ug/L		105	70 - 130	5	25
trans-1,2-Dichloroethene	50.0	50.09		ug/L		100	75 - 125	6	25
trans-1,3-Dichloropropene	50.0	54.80		ug/L		110	66 - 125	3	25
trans-1,4-Dichloro-2-butene	50.0	61.04		ug/L		122	70 - 130	6	25
Trichloroethene	50.0	53.58		ug/L		107	75 - 135	5	25
Trichlorofluoromethane	50.0	50.78		ug/L		102	60 - 140	2	25
Vinyl acetate	250	268.1		ug/L		107	60 - 140	5	25
Vinyl chloride	50.0	46.84		ug/L		94	60 - 140	10	25
Xylenes, Total	100	103.0		ug/L		103	75 - 125	1	25
m,p-Xylenes	0.0500	0.05091		mg/L		102	75 - 125	0	25
o-Xylene	0.0500	0.05209		mg/L		104	75 - 125	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		63 - 144
4-Bromofluorobenzene (Surr)	111		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: 860-61182-I-2 MS

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	52.69		ug/L		105	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	57.25		ug/L		115	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	58.62		ug/L		117	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	46.98		ug/L		94	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	53.05		ug/L		106	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	57.54		ug/L		115	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	52.37		ug/L		105	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	55.08		ug/L		110	75 - 125
1,2,4-Trimethylbenzene	1.75		50.0	58.17		ug/L		113	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	47.89		ug/L		96	59 - 125
1,2-Dibromoethane	4.50	J	50.0	58.58		ug/L		108	73 - 125
1,2-Dichloroethane	15.5		50.0	72.59		ug/L		114	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	55.59		ug/L		111	74 - 125
1,3,5-Trimethylbenzene	0.871	J	50.0	56.45		ug/L		111	70 - 125
1,3-Butadiene	<0.568	U	50.0	45.40		ug/L		91	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	63.02		ug/L		126	70 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61182-I-2 MS

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	31.6	J	250	319.2		ug/L		115	60 - 140
2-Hexanone (MBK)	40.5	J	250	337.8		ug/L		119	60 - 140
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	54.10		ug/L		108	70 - 130
4-Methyl-2-pentanone	11.4	J	250	304.7		ug/L		117	60 - 140
Acetone	49.3	J	250	311.5		ug/L		105	60 - 140
Acetonitrile	<14.6	U	500	674.2		ug/L		135	60 - 140
Acrolein	<11.1	U	250	188.0		ug/L		75	50 - 150
Acrylonitrile	<14.3	U	500	583.9		ug/L		117	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	43.43		ug/L		87	70 - 130
Benzene	30.9		50.0	87.64		ug/L		113	66 - 142
Bromodichloromethane	<0.552	U	50.0	55.08		ug/L		110	75 - 125
Bromoform	<0.633	U	50.0	43.95		ug/L		88	75 - 125
Bromomethane	<1.42	U	50.0	36.37		ug/L		73	60 - 140
Carbon disulfide	<1.65	U	50.0	53.22		ug/L		106	60 - 140
Carbon tetrachloride	<0.896	U	50.0	52.04		ug/L		104	62 - 125
Chlorobenzene	<0.455	U	50.0	52.17		ug/L		104	60 - 133
Chlorodibromomethane	<0.547	U	50.0	52.02		ug/L		104	73 - 125
Chloroethane	<1.98	U	50.0	46.58		ug/L		93	60 - 140
Chloroform	<0.464	U	50.0	56.27		ug/L		113	70 - 130
Chloromethane	<2.04	U	50.0	45.84		ug/L		92	60 - 140
Chloroprene	<0.598	U	50.0	57.10		ug/L		114	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	54.74		ug/L		109	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	55.38		ug/L		111	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	52.44		ug/L		105	75 - 125
Cyclohexane	<1.29	U	50.0	51.07		ug/L		102	70 - 130
Dibromomethane	<0.357	U	50.0	54.83		ug/L		110	69 - 127
Ethyl methacrylate	<1.12	U	50.0	59.48		ug/L		119	70 - 130
Ethylbenzene	1.08		50.0	54.44		ug/L		107	75 - 125
Hexane	<0.517	U	50.0	50.87		ug/L		102	72 - 125
Iodomethane	<6.52	U	50.0	55.30		ug/L		111	75 - 125
Isobutanol	<17.1	U *+	1240	1733		ug/L		140	60 - 140
Methacrylonitrile	<2.72	U	500	592.8		ug/L		119	70 - 130
Methyl methacrylate	<2.25	U	100	125.3		ug/L		125	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	58.81		ug/L		118	65 - 135
Methylene Chloride	<1.73	U	50.0	49.62		ug/L		99	75 - 125
Propionitrile	<3.34	U	500	624.6		ug/L		125	70 - 130
Propylbenzene	<0.429	U	50.0	55.03		ug/L		110	75 - 125
Styrene	<0.619	U	50.0	52.85		ug/L		106	75 - 125
Tetrachloroethene	<0.655	U	50.0	49.60		ug/L		99	71 - 125
Tetrahydrofuran	<1.83	U	100	102.1		ug/L		102	75 - 125
Toluene	23.6		50.0	76.33		ug/L		106	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	57.97		ug/L		116	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	54.97		ug/L		110	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	57.84		ug/L		116	70 - 130
Trichloroethene	<0.791	U	50.0	52.82		ug/L		106	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	49.46		ug/L		99	60 - 140
Vinyl acetate	<2.14	U	250	295.4		ug/L		118	60 - 140
Vinyl chloride	<0.428	U	50.0	48.53		ug/L		97	60 - 140
Xylenes, Total	14.3		100	120.3		ug/L		106	75 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61182-I-2 MS

Matrix: Water

Analysis Batch: 130977

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	0.00850	J	0.0500	0.06096		mg/L		105	75 - 125
o-Xylene	0.00575		0.0500	0.05932		mg/L		107	75 - 125
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	105		63 - 144						
4-Bromofluorobenzene (Surr)	105		74 - 124						
Dibromofluoromethane (Surr)	105		75 - 131						
Toluene-d8 (Surr)	101		80 - 120						

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-130949/1-A

Matrix: Water

Analysis Batch: 131366

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.150	U	0.571	0.150	ug/L		11/14/23 10:57	11/16/23 12:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	102		37 - 133				11/14/23 10:57	11/16/23 12:43	1

Lab Sample ID: LCS 860-130949/2-A

Matrix: Water

Analysis Batch: 131366

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.86	0.8920		ug/L		31	27 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2,4,6-Tribromophenol (Surr)	78		35 - 130				
2-Fluorophenol (Surr)	37		19 - 120				
2-Fluorobiphenyl	80		43 - 130				
Nitrobenzene-d5 (Surr)	110		37 - 133				
Phenol-d5 (Surr)	23		8 - 124				
p-Terphenyl-d14 (Surr)	112		47 - 130				

Lab Sample ID: LCSD 860-130949/3-A

Matrix: Water

Analysis Batch: 131366

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130949

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	3.30	1.110		ug/L		34	27 - 130	22	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	76		35 - 130						
2-Fluorophenol (Surr)	39		19 - 120						
2-Fluorobiphenyl	82		43 - 130						
Nitrobenzene-d5 (Surr)	111		37 - 133						

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-130949/3-A

Matrix: Water

Analysis Batch: 131366

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 130949

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Phenol-d5 (Surr)	25		8 - 124
p-Terphenyl-d14 (Surr)	113		47 - 130

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 860-131120/1-A

Matrix: Water

Analysis Batch: 131314

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 131120

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/15/23 09:09	11/16/23 11:18	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/15/23 09:09	11/16/23 11:18	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/15/23 09:09	11/16/23 11:18	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/15/23 09:09	11/16/23 11:18	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/15/23 09:09	11/16/23 11:18	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/15/23 09:09	11/16/23 11:18	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/15/23 09:09	11/16/23 11:18	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/15/23 09:09	11/16/23 11:18	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/15/23 09:09	11/16/23 11:18	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/15/23 09:09	11/16/23 11:18	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/15/23 09:09	11/16/23 11:18	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/15/23 09:09	11/16/23 11:18	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/15/23 09:09	11/16/23 11:18	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/15/23 09:09	11/16/23 11:18	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/15/23 09:09	11/16/23 11:18	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 11:18	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/15/23 09:09	11/16/23 11:18	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/15/23 09:09	11/16/23 11:18	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/15/23 09:09	11/16/23 11:18	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/15/23 09:09	11/16/23 11:18	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/15/23 09:09	11/16/23 11:18	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/15/23 09:09	11/16/23 11:18	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/15/23 09:09	11/16/23 11:18	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/15/23 09:09	11/16/23 11:18	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/15/23 09:09	11/16/23 11:18	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/15/23 09:09	11/16/23 11:18	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/15/23 09:09	11/16/23 11:18	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/15/23 09:09	11/16/23 11:18	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/15/23 09:09	11/16/23 11:18	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/15/23 09:09	11/16/23 11:18	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/15/23 09:09	11/16/23 11:18	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/15/23 09:09	11/16/23 11:18	1
3,3'-Dimethylbenzidine	<0.444	U	8.00	0.444	ug/L		11/15/23 09:09	11/16/23 11:18	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/15/23 09:09	11/16/23 11:18	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/15/23 09:09	11/16/23 11:18	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/15/23 09:09	11/16/23 11:18	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/15/23 09:09	11/16/23 11:18	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/15/23 09:09	11/16/23 11:18	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/15/23 09:09	11/16/23 11:18	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-131120/1-A

Matrix: Water

Analysis Batch: 131314

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 131120

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/15/23 09:09	11/16/23 11:18	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/15/23 09:09	11/16/23 11:18	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/15/23 09:09	11/16/23 11:18	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/15/23 09:09	11/16/23 11:18	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/15/23 09:09	11/16/23 11:18	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/15/23 09:09	11/16/23 11:18	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/15/23 09:09	11/16/23 11:18	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/15/23 09:09	11/16/23 11:18	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/15/23 09:09	11/16/23 11:18	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/15/23 09:09	11/16/23 11:18	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/15/23 09:09	11/16/23 11:18	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/15/23 09:09	11/16/23 11:18	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/15/23 09:09	11/16/23 11:18	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 11:18	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/15/23 09:09	11/16/23 11:18	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/15/23 09:09	11/16/23 11:18	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/15/23 09:09	11/16/23 11:18	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/15/23 09:09	11/16/23 11:18	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/15/23 09:09	11/16/23 11:18	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/15/23 09:09	11/16/23 11:18	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/15/23 09:09	11/16/23 11:18	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/15/23 09:09	11/16/23 11:18	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/15/23 09:09	11/16/23 11:18	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/15/23 09:09	11/16/23 11:18	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 11:18	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/15/23 09:09	11/16/23 11:18	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/15/23 09:09	11/16/23 11:18	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/15/23 09:09	11/16/23 11:18	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/15/23 09:09	11/16/23 11:18	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/15/23 09:09	11/16/23 11:18	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/15/23 09:09	11/16/23 11:18	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/15/23 09:09	11/16/23 11:18	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/15/23 09:09	11/16/23 11:18	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/15/23 09:09	11/16/23 11:18	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/15/23 09:09	11/16/23 11:18	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/15/23 09:09	11/16/23 11:18	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/15/23 09:09	11/16/23 11:18	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/15/23 09:09	11/16/23 11:18	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/15/23 09:09	11/16/23 11:18	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/15/23 09:09	11/16/23 11:18	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/15/23 09:09	11/16/23 11:18	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/15/23 09:09	11/16/23 11:18	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/15/23 09:09	11/16/23 11:18	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/15/23 09:09	11/16/23 11:18	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/15/23 09:09	11/16/23 11:18	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/15/23 09:09	11/16/23 11:18	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/15/23 09:09	11/16/23 11:18	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/15/23 09:09	11/16/23 11:18	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/15/23 09:09	11/16/23 11:18	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-131120/1-A

Matrix: Water

Analysis Batch: 131314

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 131120

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/15/23 09:09	11/16/23 11:18	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/15/23 09:09	11/16/23 11:18	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/15/23 09:09	11/16/23 11:18	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/15/23 09:09	11/16/23 11:18	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/15/23 09:09	11/16/23 11:18	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/15/23 09:09	11/16/23 11:18	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/15/23 09:09	11/16/23 11:18	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/15/23 09:09	11/16/23 11:18	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/15/23 09:09	11/16/23 11:18	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/15/23 09:09	11/16/23 11:18	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/15/23 09:09	11/16/23 11:18	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/15/23 09:09	11/16/23 11:18	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/15/23 09:09	11/16/23 11:18	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/15/23 09:09	11/16/23 11:18	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/15/23 09:09	11/16/23 11:18	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/15/23 09:09	11/16/23 11:18	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/15/23 09:09	11/16/23 11:18	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/15/23 09:09	11/16/23 11:18	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/15/23 09:09	11/16/23 11:18	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/15/23 09:09	11/16/23 11:18	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/15/23 09:09	11/16/23 11:18	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/15/23 09:09	11/16/23 11:18	1
p-Phenylene diamine	<10.0	U	10.0	10.0	ug/L		11/15/23 09:09	11/16/23 11:18	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/15/23 09:09	11/16/23 11:18	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/15/23 09:09	11/16/23 11:18	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/15/23 09:09	11/16/23 11:18	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/15/23 09:09	11/16/23 11:18	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/15/23 09:09	11/16/23 11:18	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/15/23 09:09	11/16/23 11:18	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/15/23 09:09	11/16/23 11:18	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/15/23 09:09	11/16/23 11:18	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/15/23 09:09	11/16/23 11:18	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/15/23 09:09	11/16/23 11:18	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/15/23 09:09	11/16/23 11:18	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/15/23 09:09	11/16/23 11:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	52		31 - 132	11/15/23 09:09	11/16/23 11:18	1
2-Fluorobiphenyl	51		40 - 130	11/15/23 09:09	11/16/23 11:18	1
2-Fluorophenol (Surr)	40		21 - 114	11/15/23 09:09	11/16/23 11:18	1
Nitrobenzene-d5 (Surr)	53		37 - 130	11/15/23 09:09	11/16/23 11:18	1
Phenol-d5 (Surr)	28		16 - 117	11/15/23 09:09	11/16/23 11:18	1
p-Terphenyl-d14	81		20 - 141	11/15/23 09:09	11/16/23 11:18	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-131120/2-A

Matrix: Water

Analysis Batch: 131314

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 131120

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	20.0	9.872		ug/L		49	41 - 117
1,2,4,5-Tetrachlorobenzene	20.0	9.640		ug/L		48	39 - 120
1,2,4-Trichlorobenzene	20.0	10.05		ug/L		50	34 - 117
1,2-Dichlorobenzene	20.0	9.798		ug/L		49	38 - 111
1,3,5-Trinitrobenzene	20.0	17.06		ug/L		85	35 - 128
1,3-Dichlorobenzene	20.0	9.692		ug/L		48	37 - 111
1,3-Dinitrobenzene	20.0	12.99		ug/L		65	36 - 131
1,4-Dichlorobenzene	20.0	9.702		ug/L		49	37 - 111
1,4-Naphthoquinone	20.0	12.43		ug/L		62	10 - 150
1-Naphthylamine	20.0	10.37		ug/L		52	40 - 120
2,2'-oxybis[1-chloropropane]	20.0	9.631		ug/L		48	10 - 150
2,3,4,6-Tetrachlorophenol	20.0	15.01		ug/L		75	33 - 132
2,4,5-Trichlorophenol	20.0	12.87		ug/L		64	39 - 125
2,4,6-Trichlorophenol	20.0	12.47		ug/L		62	42 - 125
2,4-Dichlorophenol	20.0	11.09		ug/L		55	38 - 120
2,4-Dimethylphenol	20.0	13.24		ug/L		66	39 - 117
2,4-Dinitrophenol	20.0	15.67		ug/L		78	13 - 152
2,4-Dinitrotoluene	20.0	15.17		ug/L		76	41 - 128
2,6-Dichlorophenol	20.0	10.81		ug/L		54	42 - 118
2,6-Dinitrotoluene	20.0	13.32		ug/L		67	42 - 127
2-Acetylaminofluorene	20.0	13.46		ug/L		67	40 - 130
2-Chloronaphthalene	20.0	10.16		ug/L		51	40 - 118
2-Chlorophenol	20.0	10.25		ug/L		51	41 - 108
2-Methylnaphthalene	20.0	10.48		ug/L		52	37 - 112
2-Methylphenol	20.0	9.939		ug/L		50	36 - 125
2-Naphthylamine	20.0	9.183		ug/L		46	40 - 120
2-Nitroaniline	20.0	12.69		ug/L		63	34 - 126
2-Nitrophenol	20.0	11.67		ug/L		58	38 - 125
2-Picoline	20.0	2.913		ug/L		15	11 - 107
2-Toluidine	20.0	8.033		ug/L		40	38 - 124
3 & 4 Methylphenol	20.0	9.214		ug/L		46	35 - 116
3,3'-Dichlorobenzidine	20.0	13.03		ug/L		65	29 - 141
3,3'-Dimethylbenzidine	20.0	1.467	J *	ug/L		7	40 - 130
3-Methylcholanthrene	20.0	14.12		ug/L		71	20 - 130
3-Nitroaniline	20.0	12.26		ug/L		61	42 - 123
4,6-Dinitro-2-methylphenol	20.0	15.54		ug/L		78	12 - 157
4-Aminobiphenyl	20.0	9.142		ug/L		46	20 - 130
4-Bromophenyl phenyl ether	20.0	11.62		ug/L		58	40 - 126
4-Chloro-3-methylphenol	20.0	12.30		ug/L		62	40 - 119
4-Chloroaniline	20.0	9.406		ug/L		47	39 - 111
4-Chlorophenyl phenyl ether	20.0	11.35		ug/L		57	40 - 122
4-Nitroaniline	20.0	14.57		ug/L		73	42 - 125
4-Nitroquinoline-1-oxide	20.0	16.39		ug/L		82	20 - 130
7,12-Dimethylbenz(a)anthracene	20.0	10.97		ug/L		55	40 - 120
Acenaphthene	20.0	11.00		ug/L		55	41 - 116
Acenaphthylene	20.0	11.27		ug/L		56	41 - 118
Acetophenone	20.0	10.17		ug/L		51	23 - 175
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0	

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-131120/2-A

Matrix: Water

Analysis Batch: 131314

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 131120

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	20.0	6.173		ug/L		31	31 - 100
Anthracene	20.0	13.00		ug/L		65	39 - 127
Benzo[a]anthracene	20.0	13.61		ug/L		68	40 - 129
Benzo[a]pyrene	20.0	14.35		ug/L		72	36 - 141
Benzo[b]fluoranthene	20.0	13.96		ug/L		70	34 - 139
Benzo[g,h,i]perylene	20.0	15.91		ug/L		80	32 - 141
Benzo[k]fluoranthene	20.0	12.86		ug/L		64	31 - 139
Benzyl alcohol	20.0	11.77		ug/L		59	37 - 102
Bis(2-chloroethoxy)methane	20.0	9.958		ug/L		50	36 - 113
Bis(2-chloroethyl)ether	20.0	9.807		ug/L		49	38 - 111
Bis(2-ethylhexyl) phthalate	20.0	13.57		ug/L		68	44 - 136
Butyl benzyl phthalate	20.0	13.85		ug/L		69	44 - 133
Chrysene	20.0	13.25		ug/L		66	41 - 124
Dibenz(a,h)anthracene	20.0	16.28		ug/L		81	35 - 143
Dibenzofuran	20.0	11.01		ug/L		55	41 - 119
Diethyl phthalate	20.0	12.88		ug/L		64	41 - 125
Dimethyl phthalate	20.0	12.79		ug/L		64	42 - 123
Di-n-butyl phthalate	20.0	14.97		ug/L		75	41 - 133
Di-n-octyl phthalate	20.0	15.49		ug/L		77	34 - 145
Diphenyl ether	20.0	9.928		ug/L		50	40 - 130
Ethyl methanesulfonate	20.0	10.23		ug/L		51	40 - 127
Fluoranthene	20.0	14.54		ug/L		73	38 - 132
Fluorene	20.0	11.80		ug/L		59	41 - 121
Hexachlorobenzene	20.0	11.76		ug/L		59	39 - 128
Hexachlorobutadiene	20.0	9.143		ug/L		46	31 - 120
Hexachlorocyclopentadiene	20.0	11.17		ug/L		56	15 - 117
Hexachloroethane	20.0	9.123		ug/L		46	37 - 109
Hexachloropropene	20.0	8.404		ug/L		42	24 - 122
Indeno[1,2,3-cd]pyrene	20.0	16.03		ug/L		80	35 - 141
Isophorone	20.0	11.18		ug/L		56	40 - 115
Methyl methanesulfonate	20.0	9.129		ug/L		46	33 - 120
Naphthalene	20.0	9.876		ug/L		49	37 - 113
Nitrobenzene	20.0	10.65		ug/L		53	37 - 114
N-Nitro-o-toluidine	20.0	13.99		ug/L		70	40 - 120
N-Nitrosodiethylamine	20.0	10.62		ug/L		53	42 - 115
N-Nitrosodimethylamine	20.0	8.815		ug/L		44	28 - 126
N-Nitrosodi-n-butylamine	20.0	9.320		ug/L		47	34 - 122
N-Nitrosodi-n-propylamine	20.0	10.61		ug/L		53	38 - 117
N-Nitrosodiphenylamine	20.0	12.72		ug/L		64	40 - 127
N-Nitrosomethylethylamine	20.0	10.32		ug/L		52	41 - 108
N-Nitrosomorpholine	20.0	11.01		ug/L		55	32 - 115
N-Nitrosopiperidine	20.0	11.03		ug/L		55	39 - 115
N-Nitrosopyrrolidine	20.0	11.11		ug/L		56	36 - 121
p-Dimethylamino azobenzene	20.0	11.96		ug/L		60	38 - 124
Pentachlorobenzene	20.0	10.45		ug/L		52	40 - 123
Pentachloronitrobenzene	20.0	12.95		ug/L		65	40 - 120
Pentachlorophenol	20.0	14.44		ug/L		72	10 - 137
Phenacetin	20.0	13.78		ug/L		69	20 - 130
Phenanthrene	20.0	12.52		ug/L		63	39 - 126

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-131120/2-A

Matrix: Water

Analysis Batch: 131314

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 131120

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	20.0	6.163		ug/L		31	15 - 106
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150
Pronamide	20.0	14.68		ug/L		73	25 - 120
Pyrene	20.0	12.24		ug/L		61	40 - 130
Pyridine	20.0	2.723	*-	ug/L		14	16 - 135
Safrole, Total	20.0	9.905		ug/L		50	40 - 120
Aramite Peak 2	10.0	6.757		ug/L		68	35 - 130
Isosafrole Peak 1	3.20	<2.46	U	ug/L		52	40 - 120
Diallate Peak 2	5.20	3.005	J	ug/L		58	38 - 130
Isosafrole Peak 2	16.8	9.226		ug/L		55	40 - 120
Diallate Peak 1	14.8	8.982		ug/L		61	38 - 130
Aramite Peak 1	10.0	6.517		ug/L		65	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	77		31 - 132
2-Fluorobiphenyl	60		40 - 130
2-Fluorophenol (Surr)	42		21 - 114
Nitrobenzene-d5 (Surr)	61		37 - 130
Phenol-d5 (Surr)	34		16 - 117
p-Terphenyl-d14	86		20 - 141

Lab Sample ID: LCSD 860-131120/3-A

Matrix: Water

Analysis Batch: 131314

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 131120

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	20.0	10.03		ug/L		50	41 - 117	2	30
1,2,4,5-Tetrachlorobenzene	20.0	9.600		ug/L		48	39 - 120	0	30
1,2,4-Trichlorobenzene	20.0	9.542		ug/L		48	34 - 117	5	30
1,2-Dichlorobenzene	20.0	9.848		ug/L		49	38 - 111	1	30
1,3,5-Trinitrobenzene	20.0	17.01		ug/L		85	35 - 128	0	30
1,3-Dichlorobenzene	20.0	9.749		ug/L		49	37 - 111	1	30
1,3-Dinitrobenzene	20.0	13.38		ug/L		67	36 - 131	3	30
1,4-Dichlorobenzene	20.0	9.729		ug/L		49	37 - 111	0	30
1,4-Naphthoquinone	20.0	12.49		ug/L		62	10 - 150	0	30
1-Naphthylamine	20.0	10.44		ug/L		52	40 - 120	1	30
2,2'-oxybis[1-chloropropane]	20.0	9.551		ug/L		48	10 - 150	1	30
2,3,4,6-Tetrachlorophenol	20.0	14.76		ug/L		74	33 - 132	2	30
2,4,5-Trichlorophenol	20.0	12.98		ug/L		65	39 - 125	1	30
2,4,6-Trichlorophenol	20.0	12.12		ug/L		61	42 - 125	3	30
2,4-Dichlorophenol	20.0	10.98		ug/L		55	38 - 120	1	30
2,4-Dimethylphenol	20.0	12.96		ug/L		65	39 - 117	2	30
2,4-Dinitrophenol	20.0	16.16		ug/L		81	13 - 152	3	30
2,4-Dinitrotoluene	20.0	15.60		ug/L		78	41 - 128	3	30
2,6-Dichlorophenol	20.0	10.52		ug/L		53	42 - 118	3	30
2,6-Dinitrotoluene	20.0	13.28		ug/L		66	42 - 127	0	30
2-Acetylaminofluorene	20.0	13.84		ug/L		69	40 - 130	3	30
2-Chloronaphthalene	20.0	10.17		ug/L		51	40 - 118	0	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-131120/3-A

Matrix: Water

Analysis Batch: 131314

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 131120

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chlorophenol	20.0	10.11		ug/L		51	41 - 108	1	30
2-Methylnaphthalene	20.0	10.37		ug/L		52	37 - 112	1	30
2-Methylphenol	20.0	9.774		ug/L		49	36 - 125	2	30
2-Naphthylamine	20.0	9.467		ug/L		47	40 - 120	3	30
2-Nitroaniline	20.0	13.90		ug/L		70	34 - 126	9	30
2-Nitrophenol	20.0	11.12		ug/L		56	38 - 125	5	30
2-Picoline	20.0	2.730		ug/L		14	11 - 107	6	30
2-Toluidine	20.0	7.952	J	ug/L		40	38 - 124	1	30
3 & 4 Methylphenol	20.0	9.343		ug/L		47	35 - 116	1	30
3,3'-Dichlorobenzidine	20.0	13.18		ug/L		66	29 - 141	1	30
3,3'-Dimethylbenzidine	20.0	1.486	J *	ug/L		7	40 - 130	1	30
3-Methylcholanthrene	20.0	14.19		ug/L		71	20 - 130	1	30
3-Nitroaniline	20.0	13.44		ug/L		67	42 - 123	9	30
4,6-Dinitro-2-methylphenol	20.0	15.70		ug/L		79	12 - 157	1	30
4-Aminobiphenyl	20.0	9.526		ug/L		48	20 - 130	4	30
4-Bromophenyl phenyl ether	20.0	12.17		ug/L		61	40 - 126	5	30
4-Chloro-3-methylphenol	20.0	11.72		ug/L		59	40 - 119	5	30
4-Chloroaniline	20.0	9.415		ug/L		47	39 - 111	0	30
4-Chlorophenyl phenyl ether	20.0	11.54		ug/L		58	40 - 122	2	30
4-Nitroaniline	20.0	14.88		ug/L		74	42 - 125	2	30
4-Nitroquinoline-1-oxide	20.0	16.72		ug/L		84	20 - 130	2	30
7,12-Dimethylbenz(a)anthracene	20.0	11.24		ug/L		56	40 - 120	2	30
Acenaphthene	20.0	10.87		ug/L		54	41 - 116	1	30
Acenaphthylene	20.0	11.46		ug/L		57	41 - 118	2	30
Acetophenone	20.0	9.941		ug/L		50	23 - 175	2	30
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0		NC	30
Aniline	20.0	6.136		ug/L		31	31 - 100	1	30
Anthracene	20.0	13.39		ug/L		67	39 - 127	3	30
Benzo[a]anthracene	20.0	13.63		ug/L		68	40 - 129	0	30
Benzo[a]pyrene	20.0	14.65		ug/L		73	36 - 141	2	30
Benzo[b]fluoranthene	20.0	14.14		ug/L		71	34 - 139	1	30
Benzo[g,h,i]perylene	20.0	15.47		ug/L		77	32 - 141	3	30
Benzo[k]fluoranthene	20.0	12.90		ug/L		64	31 - 139	0	30
Benzyl alcohol	20.0	11.27		ug/L		56	37 - 102	4	30
Bis(2-chloroethoxy)methane	20.0	9.875		ug/L		49	36 - 113	1	30
Bis(2-chloroethyl)ether	20.0	9.643		ug/L		48	38 - 111	2	30
Bis(2-ethylhexyl) phthalate	20.0	13.57		ug/L		68	44 - 136	0	30
Butyl benzyl phthalate	20.0	13.94		ug/L		70	44 - 133	1	30
Chrysene	20.0	12.97		ug/L		65	41 - 124	2	30
Dibenz(a,h)anthracene	20.0	15.79		ug/L		79	35 - 143	3	30
Dibenzofuran	20.0	11.05		ug/L		55	41 - 119	0	30
Diethyl phthalate	20.0	12.99		ug/L		65	41 - 125	1	30
Dimethyl phthalate	20.0	12.60		ug/L		63	42 - 123	2	30
Di-n-butyl phthalate	20.0	15.40		ug/L		77	41 - 133	3	30
Di-n-octyl phthalate	20.0	16.01		ug/L		80	34 - 145	3	30
Diphenyl ether	20.0	10.01		ug/L		50	40 - 130	1	30
Ethyl methanesulfonate	20.0	10.38		ug/L		52	40 - 127	2	30
Fluoranthene	20.0	15.09		ug/L		75	38 - 132	4	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-131120/3-A

Matrix: Water

Analysis Batch: 131314

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 131120

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluorene	20.0	11.89		ug/L		59	41 - 121	1	30
Hexachlorobenzene	20.0	12.04		ug/L		60	39 - 128	2	30
Hexachlorobutadiene	20.0	9.642		ug/L		48	31 - 120	5	30
Hexachlorocyclopentadiene	20.0	11.18		ug/L		56	15 - 117	0	30
Hexachloroethane	20.0	9.422		ug/L		47	37 - 109	3	30
Hexachloropropene	20.0	8.719		ug/L		44	24 - 122	4	30
Indeno[1,2,3-cd]pyrene	20.0	15.73		ug/L		79	35 - 141	2	30
Isophorone	20.0	10.88		ug/L		54	40 - 115	3	30
Methyl methanesulfonate	20.0	9.232		ug/L		46	33 - 120	1	30
Naphthalene	20.0	9.613		ug/L		48	37 - 113	3	30
Nitrobenzene	20.0	10.32		ug/L		52	37 - 114	3	30
N-Nitro-o-toluidine	20.0	13.90		ug/L		70	40 - 120	1	30
N-Nitrosodiethylamine	20.0	10.29		ug/L		51	42 - 115	3	30
N-Nitrosodimethylamine	20.0	8.214		ug/L		41	28 - 126	7	30
N-Nitrosodi-n-butylamine	20.0	9.527		ug/L		48	34 - 122	2	30
N-Nitrosodi-n-propylamine	20.0	10.74		ug/L		54	38 - 117	1	30
N-Nitrosodiphenylamine	20.0	12.89		ug/L		64	40 - 127	1	30
N-Nitrosomethylethylamine	20.0	10.27		ug/L		51	41 - 108	0	30
N-Nitrosomorpholine	20.0	11.13		ug/L		56	32 - 115	1	30
N-Nitrosopiperidine	20.0	11.13		ug/L		56	39 - 115	1	30
N-Nitrosopyrrolidine	20.0	11.14		ug/L		56	36 - 121	0	30
p-Dimethylamino azobenzene	20.0	11.89		ug/L		59	38 - 124	1	30
Pentachlorobenzene	20.0	10.66		ug/L		53	40 - 123	2	30
Pentachloronitrobenzene	20.0	13.41		ug/L		67	40 - 120	4	30
Pentachlorophenol	20.0	14.87		ug/L		74	10 - 137	3	30
Phenacetin	20.0	13.99		ug/L		70	20 - 130	1	30
Phenanthrene	20.0	12.61		ug/L		63	39 - 126	1	30
Phenol	20.0	6.175		ug/L		31	15 - 106	0	30
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150	NC	30
Pronamide	20.0	15.06		ug/L		75	25 - 120	3	30
Pyrene	20.0	12.24		ug/L		61	40 - 130	0	30
Pyridine	20.0	2.834	*-	ug/L		14	16 - 135	4	30
Safrole, Total	20.0	10.12		ug/L		51	40 - 120	2	30
Aramite Peak 2	10.0	6.554		ug/L		66	35 - 130	3	30
Isosafrole Peak 1	3.20	<2.46	U	ug/L		49	40 - 120	6	30
Diallate Peak 2	5.20	3.150	J	ug/L		61	38 - 130	5	30
Isosafrole Peak 2	16.8	8.942		ug/L		53	40 - 120	3	30
Diallate Peak 1	14.8	9.049		ug/L		61	38 - 130	1	30
Aramite Peak 1	10.0	6.834		ug/L		68	35 - 130	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	79		31 - 132
2-Fluorobiphenyl	58		40 - 130
2-Fluorophenol (Surr)	44		21 - 114
Nitrobenzene-d5 (Surr)	60		37 - 130
Phenol-d5 (Surr)	33		16 - 117
p-Terphenyl-d14	86		20 - 141

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

GC/MS VOA

Analysis Batch: 130579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61243-1	MW-12	Total/NA	Water	8260D	
860-61243-2	MW-14	Total/NA	Water	8260D	
860-61243-3	MW-15	Total/NA	Water	8260D	
860-61243-4	MW-16	Total/NA	Water	8260D	
860-61243-5	MW-7	Total/NA	Water	8260D	
860-61243-6	TB-06 (110923)	Total/NA	Water	8260D	
MB 860-130579/9	Method Blank	Total/NA	Water	8260D	
LCS 860-130579/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-130579/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61082-E-1 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 130977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61243-1 - RA	MW-12	Total/NA	Water	8260D	
860-61243-5 - RA	MW-7	Total/NA	Water	8260D	
MB 860-130977/9	Method Blank	Total/NA	Water	8260D	
LCS 860-130977/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-130977/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61182-I-2 MS	Matrix Spike	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 130949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61243-1	MW-12	Total/NA	Water	3511	
860-61243-2	MW-14	Total/NA	Water	3511	
860-61243-3	MW-15	Total/NA	Water	3511	
860-61243-4	MW-16	Total/NA	Water	3511	
860-61243-5	MW-7	Total/NA	Water	3511	
MB 860-130949/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-130949/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-130949/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Prep Batch: 131120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61243-1	MW-12	Total/NA	Water	3510C	
860-61243-2	MW-14	Total/NA	Water	3510C	
860-61243-3	MW-15	Total/NA	Water	3510C	
860-61243-4 - DL	MW-16	Total/NA	Water	3510C	
860-61243-4	MW-16	Total/NA	Water	3510C	
860-61243-5	MW-7	Total/NA	Water	3510C	
MB 860-131120/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-131120/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-131120/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 131314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-131120/1-A	Method Blank	Total/NA	Water	8270E LL	131120
LCS 860-131120/2-A	Lab Control Sample	Total/NA	Water	8270E LL	131120
LCSD 860-131120/3-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	131120

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

GC/MS Semi VOA

Analysis Batch: 131366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61243-1	MW-12	Total/NA	Water	8270E	130949
860-61243-5	MW-7	Total/NA	Water	8270E	130949
MB 860-130949/1-A	Method Blank	Total/NA	Water	8270E	130949
LCS 860-130949/2-A	Lab Control Sample	Total/NA	Water	8270E	130949
LCSD 860-130949/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	130949

Analysis Batch: 131436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61243-1	MW-12	Total/NA	Water	8270E LL	131120
860-61243-2	MW-14	Total/NA	Water	8270E LL	131120
860-61243-3	MW-15	Total/NA	Water	8270E LL	131120
860-61243-4	MW-16	Total/NA	Water	8270E LL	131120
860-61243-5	MW-7	Total/NA	Water	8270E LL	131120

Analysis Batch: 131559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61243-4 - DL	MW-16	Total/NA	Water	8270E LL	131120

Analysis Batch: 131685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61243-2	MW-14	Total/NA	Water	8270E	130949
860-61243-3	MW-15	Total/NA	Water	8270E	130949
860-61243-4	MW-16	Total/NA	Water	8270E	130949

Analysis Batch: 132731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61243-2	MW-14	Total/NA	Water	8270E LL	131120
860-61243-3	MW-15	Total/NA	Water	8270E LL	131120

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-12

Date Collected: 11/09/23 09:55

Date Received: 11/10/23 10:09

Lab Sample ID: 860-61243-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	2	5 mL	5 mL	130977	11/15/23 03:35	AN	EET HOU
Total/NA	Analysis	8260D		2	5 mL	5 mL	130579	11/11/23 04:24	A1S	EET HOU
Total/NA	Prep	3511			30 mL	2 mL	130949	11/14/23 10:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131366	11/16/23 17:08	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131120	11/15/23 09:09	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131436	11/16/23 17:53	EM	EET HOU

Client Sample ID: MW-14

Date Collected: 11/09/23 11:15

Date Received: 11/10/23 10:09

Lab Sample ID: 860-61243-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130579	11/11/23 03:22	A1S	EET HOU
Total/NA	Prep	3511			30.3 mL	2 mL	130949	11/14/23 10:57	TH	EET HOU
Total/NA	Analysis	8270E		50	1 mL	1 mL	131685	11/18/23 05:50	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131120	11/15/23 09:09	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131436	11/16/23 18:35	EM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131120	11/15/23 09:09	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132731	11/28/23 11:34	T1S	EET HOU

Client Sample ID: MW-15

Date Collected: 11/09/23 12:42

Date Received: 11/10/23 10:09

Lab Sample ID: 860-61243-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130579	11/11/23 03:02	A1S	EET HOU
Total/NA	Prep	3511			30.1 mL	2 mL	130949	11/14/23 10:57	TH	EET HOU
Total/NA	Analysis	8270E		100	1 mL	1 mL	131685	11/18/23 06:19	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131120	11/15/23 09:09	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131436	11/16/23 18:56	EM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131120	11/15/23 09:09	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132731	11/28/23 15:01	T1S	EET HOU

Client Sample ID: MW-16

Date Collected: 11/09/23 13:52

Date Received: 11/10/23 10:09

Lab Sample ID: 860-61243-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130579	11/11/23 02:41	A1S	EET HOU
Total/NA	Prep	3511			29.5 mL	2 mL	130949	11/14/23 10:57	TH	EET HOU
Total/NA	Analysis	8270E		100	1 mL	1 mL	131685	11/18/23 06:49	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131120	11/15/23 09:09	DR	EET HOU
Total/NA	Analysis	8270E LL		5	1 mL	1 mL	131436	11/16/23 23:26	EM	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	131120	11/15/23 09:09	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	50	1 mL	1 mL	131559	11/17/23 15:01	PXS	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Client Sample ID: MW-7

Date Collected: 11/09/23 14:55

Date Received: 11/10/23 10:09

Lab Sample ID: 860-61243-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	130977	11/15/23 01:03	AN	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	130579	11/11/23 02:21	A1S	EET HOU
Total/NA	Prep	3511			29.8 mL	2 mL	130949	11/14/23 10:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131366	11/16/23 19:05	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131120	11/15/23 09:09	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131436	11/16/23 18:14	EM	EET HOU

Client Sample ID: TB-06 (110923)

Date Collected: 11/09/23 00:00

Date Received: 11/10/23 10:09

Lab Sample ID: 860-61243-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	130579	11/10/23 23:16	A1S	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61243-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-61243-1	MW-12	Water	11/09/23 09:55	11/10/23 10:09
860-61243-2	MW-14	Water	11/09/23 11:15	11/10/23 10:09
860-61243-3	MW-15	Water	11/09/23 12:42	11/10/23 10:09
860-61243-4	MW-16	Water	11/09/23 13:52	11/10/23 10:09
860-61243-5	MW-7	Water	11/09/23 14:55	11/10/23 10:09
860-61243-6	TB-06 (110923)	Water	11/09/23 00:00	11/10/23 10:09

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-61243-1

Login Number: 61243

List Number: 1

Creator: Rubio, Yuri

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

ANALYTICAL REPORT

PREPARED FOR

Attn: Timothy Hassett
Ashland LLC
Ashland Hercules Research Center
500 Hercules Rd Bldg 8145
Wilmington, Delaware 19808

Generated 11/29/2023 7:48:57 PM

JOB DESCRIPTION

Hercules Hattiesburg, MS

JOB NUMBER

860-61596-1

Eurofins Houston

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Definitions/Glossary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Job ID: 860-61596-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-61596-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/15/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 860-131293 recovered above the upper control limit for 1,4-Dioxane (56%), Isobutyl alcohol (33.5%) and Isopropyl alcohol (43.1%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-131293/2).

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-131293 recovered outside control limits for the following analytes: 1,4-Dioxane, Isobutyl alcohol and Isopropyl alcohol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-131293 were outside control limits. Sample matrix interference is suspected.

Method 8260D: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-25 (860-61596-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270E_LL: The surrogate recovery for the laboratory control sample duplicate (LCSD) associated with preparation batch 860-132037 and analytical batch 860-132264 was outside the upper control limits.

Method 8270E_LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-132037 and analytical batch 860-132264 recovered outside control limits for the following analyte(s): 2-Picoline, 3,3'-Dimethylbenzidine, Aniline, p-Phenylene diamine and Pyridine. 2-Picoline, 3,3'-Dimethylbenzidine, Aniline, p-Phenylene diamine and Pyridine have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-34-SR

Lab Sample ID: 860-61596-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1'-Biphenyl	1.26	J	2.00	0.428	ug/L	1			8270E LL	Total/NA
Diphenyl ether	3.64	J	8.00	0.364	ug/L	1			8270E LL	Total/NA

Client Sample ID: MW-129-D

Lab Sample ID: 860-61596-2

No Detections.

Client Sample ID: MW-34-DR

Lab Sample ID: 860-61596-3

No Detections.

Client Sample ID: MW-25

Lab Sample ID: 860-61596-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Diphenyl ether	1.16	J	8.00	0.364	ug/L	1			8270E LL	Total/NA
1,4-Dioxane	1.92		0.667	0.175	ug/L	1			8270E	Total/NA

Client Sample ID: TB-10 (111423)

Lab Sample ID: 860-61596-5

No Detections.

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-34-SR

Lab Sample ID: 860-61596-1

Date Collected: 11/14/23 13:07

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 11:52	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 11:52	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 11:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 11:52	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 11:52	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 11:52	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 11:52	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 11:52	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 11:52	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 11:52	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 11:52	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 11:52	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 11:52	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 11:52	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 11:52	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 11:52	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 11:52	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 11:52	1
2-Propanol	<5.23	U **	10.0	5.23	ug/L			11/16/23 11:52	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 11:52	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 11:52	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 11:52	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 11:52	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 11:52	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 11:52	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 11:52	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 11:52	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 11:52	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 11:52	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 11:52	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 11:52	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 11:52	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 11:52	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 11:52	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 11:52	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 11:52	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 11:52	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 11:52	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 11:52	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 11:52	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 11:52	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 11:52	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 11:52	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 11:52	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 11:52	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 11:52	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 11:52	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 11:52	1
Isobutanol	<17.1	U **	50.0	17.1	ug/L			11/16/23 11:52	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-34-SR

Lab Sample ID: 860-61596-1

Date Collected: 11/14/23 13:07

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 11:52	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 11:52	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 11:52	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 11:52	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 11:52	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 11:52	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 11:52	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 11:52	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 11:52	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 11:52	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 11:52	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 11:52	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 11:52	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 11:52	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 11:52	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 11:52	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 11:52	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 11:52	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 11:52	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 11:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/16/23 11:52	1
4-Bromofluorobenzene (Surr)	94		74 - 124		11/16/23 11:52	1
Dibromofluoromethane (Surr)	103		75 - 131		11/16/23 11:52	1
Toluene-d8 (Surr)	99		80 - 120		11/16/23 11:52	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.26	J	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 02:05	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/21/23 07:40	11/23/23 02:05	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/21/23 07:40	11/23/23 02:05	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/21/23 07:40	11/23/23 02:05	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/21/23 07:40	11/23/23 02:05	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/21/23 07:40	11/23/23 02:05	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/21/23 07:40	11/23/23 02:05	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 02:05	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/21/23 07:40	11/23/23 02:05	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 02:05	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/21/23 07:40	11/23/23 02:05	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/21/23 07:40	11/23/23 02:05	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/21/23 07:40	11/23/23 02:05	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 02:05	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/21/23 07:40	11/23/23 02:05	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 02:05	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/21/23 07:40	11/23/23 02:05	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/21/23 07:40	11/23/23 02:05	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 02:05	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 02:05	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/21/23 07:40	11/23/23 02:05	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-34-SR

Lab Sample ID: 860-61596-1

Date Collected: 11/14/23 13:07

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/21/23 07:40	11/23/23 02:05	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/21/23 07:40	11/23/23 02:05	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/21/23 07:40	11/23/23 02:05	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 02:05	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/21/23 07:40	11/23/23 02:05	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/21/23 07:40	11/23/23 02:05	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 02:05	1
2-Picoline	<0.215	U *1 *-	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 02:05	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/21/23 07:40	11/23/23 02:05	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/21/23 07:40	11/23/23 02:05	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/21/23 07:40	11/23/23 02:05	1
3,3'-Dimethylbenzidine	<0.444	U *-	8.00	0.444	ug/L		11/21/23 07:40	11/23/23 02:05	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/21/23 07:40	11/23/23 02:05	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/21/23 07:40	11/23/23 02:05	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/21/23 07:40	11/23/23 02:05	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/21/23 07:40	11/23/23 02:05	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/21/23 07:40	11/23/23 02:05	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/21/23 07:40	11/23/23 02:05	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/21/23 07:40	11/23/23 02:05	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 02:05	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/21/23 07:40	11/23/23 02:05	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/21/23 07:40	11/23/23 02:05	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/21/23 07:40	11/23/23 02:05	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/21/23 07:40	11/23/23 02:05	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 02:05	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/21/23 07:40	11/23/23 02:05	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/21/23 07:40	11/23/23 02:05	1
Aniline	<0.314	U *-	4.00	0.314	ug/L		11/21/23 07:40	11/23/23 02:05	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/21/23 07:40	11/23/23 02:05	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 02:05	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 02:05	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 02:05	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/21/23 07:40	11/23/23 02:05	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 02:05	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/21/23 07:40	11/23/23 02:05	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/21/23 07:40	11/23/23 02:05	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/21/23 07:40	11/23/23 02:05	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/21/23 07:40	11/23/23 02:05	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/21/23 07:40	11/23/23 02:05	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 02:05	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 02:05	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 02:05	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 02:05	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/21/23 07:40	11/23/23 02:05	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/21/23 07:40	11/23/23 02:05	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/21/23 07:40	11/23/23 02:05	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 02:05	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/21/23 07:40	11/23/23 02:05	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/21/23 07:40	11/23/23 02:05	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-34-SR

Lab Sample ID: 860-61596-1

Date Collected: 11/14/23 13:07

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/21/23 07:40	11/23/23 02:05	1
Diphenyl ether	3.64	J	8.00	0.364	ug/L		11/21/23 07:40	11/23/23 02:05	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/21/23 07:40	11/23/23 02:05	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 02:05	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/21/23 07:40	11/23/23 02:05	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/21/23 07:40	11/23/23 02:05	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 02:05	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/21/23 07:40	11/23/23 02:05	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 02:05	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/21/23 07:40	11/23/23 02:05	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/21/23 07:40	11/23/23 02:05	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/21/23 07:40	11/23/23 02:05	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/21/23 07:40	11/23/23 02:05	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/21/23 07:40	11/23/23 02:05	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/21/23 07:40	11/23/23 02:05	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 02:05	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/21/23 07:40	11/23/23 02:05	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/21/23 07:40	11/23/23 02:05	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/21/23 07:40	11/23/23 02:05	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/21/23 07:40	11/23/23 02:05	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/21/23 07:40	11/23/23 02:05	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/21/23 07:40	11/23/23 02:05	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/21/23 07:40	11/23/23 02:05	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 02:05	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/21/23 07:40	11/23/23 02:05	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/21/23 07:40	11/23/23 02:05	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/21/23 07:40	11/23/23 02:05	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 02:05	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 02:05	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 02:05	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 02:05	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 02:05	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 02:05	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/21/23 07:40	11/23/23 02:05	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/21/23 07:40	11/23/23 02:05	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/21/23 07:40	11/23/23 02:05	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/21/23 07:40	11/23/23 02:05	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/21/23 07:40	11/23/23 02:05	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/21/23 07:40	11/23/23 02:05	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/21/23 07:40	11/23/23 02:05	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/21/23 07:40	11/23/23 02:05	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/21/23 07:40	11/23/23 02:05	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 02:05	1
Pyridine	<0.725	U *1 *	2.00	0.725	ug/L		11/21/23 07:40	11/23/23 02:05	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/21/23 07:40	11/23/23 02:05	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/21/23 07:40	11/23/23 02:05	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/21/23 07:40	11/23/23 02:05	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/21/23 07:40	11/23/23 02:05	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 02:05	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-34-SR

Lab Sample ID: 860-61596-1

Date Collected: 11/14/23 13:07

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 02:05	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/21/23 07:40	11/23/23 02:05	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/21/23 07:40	11/23/23 02:05	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	59		31 - 132	11/21/23 07:40	11/23/23 02:05	1
2-Fluorobiphenyl	55		40 - 130	11/21/23 07:40	11/23/23 02:05	1
2-Fluorophenol (Surr)	37		21 - 114	11/21/23 07:40	11/23/23 02:05	1
Nitrobenzene-d5 (Surr)	54		37 - 130	11/21/23 07:40	11/23/23 02:05	1
Phenol-d5 (Surr)	22		16 - 117	11/21/23 07:40	11/23/23 02:05	1
p-Terphenyl-d14	85		20 - 141	11/21/23 07:40	11/23/23 02:05	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.148	U	0.565	0.148	ug/L		11/21/23 13:11	11/21/23 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	117		37 - 133				11/21/23 13:11	11/21/23 18:29	1

Client Sample ID: MW-129-D

Lab Sample ID: 860-61596-2

Date Collected: 11/14/23 13:22

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 12:13	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 12:13	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 12:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 12:13	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 12:13	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 12:13	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 12:13	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 12:13	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 12:13	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 12:13	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 12:13	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 12:13	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 12:13	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 12:13	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 12:13	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 12:13	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 12:13	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 12:13	1
2-Propanol	<5.23	U *	10.0	5.23	ug/L			11/16/23 12:13	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 12:13	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 12:13	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 12:13	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 12:13	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 12:13	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 12:13	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-129-D

Lab Sample ID: 860-61596-2

Date Collected: 11/14/23 13:22

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 12:13	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 12:13	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 12:13	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 12:13	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 12:13	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 12:13	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 12:13	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 12:13	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 12:13	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 12:13	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 12:13	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 12:13	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 12:13	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 12:13	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 12:13	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 12:13	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 12:13	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 12:13	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 12:13	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 12:13	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 12:13	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 12:13	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 12:13	1
Isobutanol	<17.1	U **	50.0	17.1	ug/L			11/16/23 12:13	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 12:13	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 12:13	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 12:13	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 12:13	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 12:13	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 12:13	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 12:13	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 12:13	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 12:13	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 12:13	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 12:13	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 12:13	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 12:13	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 12:13	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 12:13	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 12:13	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 12:13	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 12:13	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 12:13	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		11/16/23 12:13	1
4-Bromofluorobenzene (Surr)	95		74 - 124		11/16/23 12:13	1
Dibromofluoromethane (Surr)	103		75 - 131		11/16/23 12:13	1
Toluene-d8 (Surr)	97		80 - 120		11/16/23 12:13	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-129-D

Lab Sample ID: 860-61596-2

Date Collected: 11/14/23 13:22

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 02:26	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/21/23 07:40	11/23/23 02:26	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/21/23 07:40	11/23/23 02:26	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/21/23 07:40	11/23/23 02:26	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/21/23 07:40	11/23/23 02:26	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/21/23 07:40	11/23/23 02:26	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/21/23 07:40	11/23/23 02:26	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 02:26	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/21/23 07:40	11/23/23 02:26	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 02:26	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/21/23 07:40	11/23/23 02:26	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/21/23 07:40	11/23/23 02:26	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/21/23 07:40	11/23/23 02:26	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 02:26	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/21/23 07:40	11/23/23 02:26	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 02:26	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/21/23 07:40	11/23/23 02:26	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/21/23 07:40	11/23/23 02:26	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 02:26	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 02:26	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/21/23 07:40	11/23/23 02:26	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/21/23 07:40	11/23/23 02:26	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/21/23 07:40	11/23/23 02:26	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/21/23 07:40	11/23/23 02:26	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 02:26	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/21/23 07:40	11/23/23 02:26	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/21/23 07:40	11/23/23 02:26	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 02:26	1
2-Picoline	<0.215	U *- *1	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 02:26	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/21/23 07:40	11/23/23 02:26	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/21/23 07:40	11/23/23 02:26	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/21/23 07:40	11/23/23 02:26	1
3,3'-Dimethylbenzidine	<0.444	U *-	8.00	0.444	ug/L		11/21/23 07:40	11/23/23 02:26	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/21/23 07:40	11/23/23 02:26	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/21/23 07:40	11/23/23 02:26	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/21/23 07:40	11/23/23 02:26	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/21/23 07:40	11/23/23 02:26	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/21/23 07:40	11/23/23 02:26	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/21/23 07:40	11/23/23 02:26	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/21/23 07:40	11/23/23 02:26	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 02:26	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/21/23 07:40	11/23/23 02:26	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/21/23 07:40	11/23/23 02:26	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/21/23 07:40	11/23/23 02:26	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/21/23 07:40	11/23/23 02:26	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 02:26	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/21/23 07:40	11/23/23 02:26	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/21/23 07:40	11/23/23 02:26	1
Aniline	<0.314	U *-	4.00	0.314	ug/L		11/21/23 07:40	11/23/23 02:26	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-129-D

Lab Sample ID: 860-61596-2

Date Collected: 11/14/23 13:22

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.154	U	2.00	0.154	ug/L		11/21/23 07:40	11/23/23 02:26	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 02:26	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 02:26	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 02:26	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/21/23 07:40	11/23/23 02:26	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 02:26	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/21/23 07:40	11/23/23 02:26	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/21/23 07:40	11/23/23 02:26	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/21/23 07:40	11/23/23 02:26	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/21/23 07:40	11/23/23 02:26	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/21/23 07:40	11/23/23 02:26	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 02:26	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 02:26	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 02:26	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 02:26	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/21/23 07:40	11/23/23 02:26	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/21/23 07:40	11/23/23 02:26	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/21/23 07:40	11/23/23 02:26	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 02:26	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/21/23 07:40	11/23/23 02:26	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/21/23 07:40	11/23/23 02:26	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/21/23 07:40	11/23/23 02:26	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/21/23 07:40	11/23/23 02:26	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/21/23 07:40	11/23/23 02:26	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 02:26	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/21/23 07:40	11/23/23 02:26	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/21/23 07:40	11/23/23 02:26	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 02:26	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/21/23 07:40	11/23/23 02:26	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 02:26	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/21/23 07:40	11/23/23 02:26	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/21/23 07:40	11/23/23 02:26	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/21/23 07:40	11/23/23 02:26	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/21/23 07:40	11/23/23 02:26	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/21/23 07:40	11/23/23 02:26	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/21/23 07:40	11/23/23 02:26	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 02:26	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/21/23 07:40	11/23/23 02:26	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/21/23 07:40	11/23/23 02:26	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/21/23 07:40	11/23/23 02:26	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/21/23 07:40	11/23/23 02:26	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/21/23 07:40	11/23/23 02:26	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/21/23 07:40	11/23/23 02:26	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/21/23 07:40	11/23/23 02:26	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 02:26	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/21/23 07:40	11/23/23 02:26	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/21/23 07:40	11/23/23 02:26	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/21/23 07:40	11/23/23 02:26	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 02:26	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-129-D

Lab Sample ID: 860-61596-2

Date Collected: 11/14/23 13:22

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 02:26	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 02:26	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 02:26	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 02:26	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 02:26	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/21/23 07:40	11/23/23 02:26	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/21/23 07:40	11/23/23 02:26	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/21/23 07:40	11/23/23 02:26	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/21/23 07:40	11/23/23 02:26	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/21/23 07:40	11/23/23 02:26	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/21/23 07:40	11/23/23 02:26	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/21/23 07:40	11/23/23 02:26	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/21/23 07:40	11/23/23 02:26	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/21/23 07:40	11/23/23 02:26	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 02:26	1
Pyridine	<0.725	U * - *1	2.00	0.725	ug/L		11/21/23 07:40	11/23/23 02:26	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/21/23 07:40	11/23/23 02:26	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/21/23 07:40	11/23/23 02:26	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/21/23 07:40	11/23/23 02:26	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/21/23 07:40	11/23/23 02:26	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 02:26	1
Diallylate Peak 2	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 02:26	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/21/23 07:40	11/23/23 02:26	1
Diallylate Peak 1	<0.675	U	8.00	0.675	ug/L		11/21/23 07:40	11/23/23 02:26	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 02:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		31 - 132	11/21/23 07:40	11/23/23 02:26	1
2-Fluorobiphenyl	67		40 - 130	11/21/23 07:40	11/23/23 02:26	1
2-Fluorophenol (Surr)	42		21 - 114	11/21/23 07:40	11/23/23 02:26	1
Nitrobenzene-d5 (Surr)	58		37 - 130	11/21/23 07:40	11/23/23 02:26	1
Phenol-d5 (Surr)	24		16 - 117	11/21/23 07:40	11/23/23 02:26	1
p-Terphenyl-d14	80		20 - 141	11/21/23 07:40	11/23/23 02:26	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.177	U	0.673	0.177	ug/L		11/16/23 11:57	11/20/23 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	77		37 - 133	11/16/23 11:57	11/20/23 18:20	1

Client Sample ID: MW-34-DR

Lab Sample ID: 860-61596-3

Date Collected: 11/14/23 14:02

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 12:33	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 12:33	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 12:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 12:33	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-34-DR

Lab Sample ID: 860-61596-3

Date Collected: 11/14/23 14:02

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 12:33	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 12:33	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 12:33	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 12:33	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 12:33	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 12:33	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 12:33	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 12:33	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 12:33	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 12:33	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 12:33	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 12:33	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 12:33	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 12:33	1
2-Propanol	<5.23	U *+	10.0	5.23	ug/L			11/16/23 12:33	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 12:33	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 12:33	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 12:33	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 12:33	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 12:33	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 12:33	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 12:33	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 12:33	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 12:33	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 12:33	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 12:33	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 12:33	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 12:33	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 12:33	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 12:33	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 12:33	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 12:33	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 12:33	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 12:33	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 12:33	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 12:33	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 12:33	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 12:33	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 12:33	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 12:33	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 12:33	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 12:33	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 12:33	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 12:33	1
Isobutanol	<17.1	U *+	50.0	17.1	ug/L			11/16/23 12:33	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 12:33	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 12:33	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 12:33	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 12:33	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-34-DR

Lab Sample ID: 860-61596-3

Date Collected: 11/14/23 14:02

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 12:33	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 12:33	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 12:33	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 12:33	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 12:33	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 12:33	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 12:33	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 12:33	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 12:33	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 12:33	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 12:33	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 12:33	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 12:33	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 12:33	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 12:33	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/16/23 12:33	1
4-Bromofluorobenzene (Surr)	96		74 - 124		11/16/23 12:33	1
Dibromofluoromethane (Surr)	103		75 - 131		11/16/23 12:33	1
Toluene-d8 (Surr)	101		80 - 120		11/16/23 12:33	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 02:47	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/21/23 07:40	11/23/23 02:47	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/21/23 07:40	11/23/23 02:47	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/21/23 07:40	11/23/23 02:47	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/21/23 07:40	11/23/23 02:47	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/21/23 07:40	11/23/23 02:47	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/21/23 07:40	11/23/23 02:47	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 02:47	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/21/23 07:40	11/23/23 02:47	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 02:47	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/21/23 07:40	11/23/23 02:47	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/21/23 07:40	11/23/23 02:47	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/21/23 07:40	11/23/23 02:47	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 02:47	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/21/23 07:40	11/23/23 02:47	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 02:47	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/21/23 07:40	11/23/23 02:47	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/21/23 07:40	11/23/23 02:47	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 02:47	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 02:47	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/21/23 07:40	11/23/23 02:47	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/21/23 07:40	11/23/23 02:47	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/21/23 07:40	11/23/23 02:47	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/21/23 07:40	11/23/23 02:47	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 02:47	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-34-DR

Lab Sample ID: 860-61596-3

Date Collected: 11/14/23 14:02

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/21/23 07:40	11/23/23 02:47	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/21/23 07:40	11/23/23 02:47	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 02:47	1
2-Picoline	<0.215	U *- *1	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 02:47	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/21/23 07:40	11/23/23 02:47	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/21/23 07:40	11/23/23 02:47	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/21/23 07:40	11/23/23 02:47	1
3,3'-Dimethylbenzidine	<0.444	U *-	8.00	0.444	ug/L		11/21/23 07:40	11/23/23 02:47	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/21/23 07:40	11/23/23 02:47	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/21/23 07:40	11/23/23 02:47	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/21/23 07:40	11/23/23 02:47	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/21/23 07:40	11/23/23 02:47	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/21/23 07:40	11/23/23 02:47	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/21/23 07:40	11/23/23 02:47	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/21/23 07:40	11/23/23 02:47	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 02:47	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/21/23 07:40	11/23/23 02:47	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/21/23 07:40	11/23/23 02:47	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/21/23 07:40	11/23/23 02:47	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/21/23 07:40	11/23/23 02:47	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 02:47	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/21/23 07:40	11/23/23 02:47	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/21/23 07:40	11/23/23 02:47	1
Aniline	<0.314	U *-	4.00	0.314	ug/L		11/21/23 07:40	11/23/23 02:47	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/21/23 07:40	11/23/23 02:47	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 02:47	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 02:47	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 02:47	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/21/23 07:40	11/23/23 02:47	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 02:47	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/21/23 07:40	11/23/23 02:47	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/21/23 07:40	11/23/23 02:47	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/21/23 07:40	11/23/23 02:47	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/21/23 07:40	11/23/23 02:47	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/21/23 07:40	11/23/23 02:47	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 02:47	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 02:47	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 02:47	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 02:47	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/21/23 07:40	11/23/23 02:47	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/21/23 07:40	11/23/23 02:47	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/21/23 07:40	11/23/23 02:47	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 02:47	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/21/23 07:40	11/23/23 02:47	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/21/23 07:40	11/23/23 02:47	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/21/23 07:40	11/23/23 02:47	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/21/23 07:40	11/23/23 02:47	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/21/23 07:40	11/23/23 02:47	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 02:47	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-34-DR

Lab Sample ID: 860-61596-3

Date Collected: 11/14/23 14:02

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/21/23 07:40	11/23/23 02:47	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/21/23 07:40	11/23/23 02:47	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 02:47	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/21/23 07:40	11/23/23 02:47	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 02:47	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/21/23 07:40	11/23/23 02:47	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/21/23 07:40	11/23/23 02:47	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/21/23 07:40	11/23/23 02:47	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/21/23 07:40	11/23/23 02:47	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/21/23 07:40	11/23/23 02:47	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/21/23 07:40	11/23/23 02:47	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 02:47	1
Methapyriline	<0.181	U	2.00	0.181	ug/L		11/21/23 07:40	11/23/23 02:47	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/21/23 07:40	11/23/23 02:47	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/21/23 07:40	11/23/23 02:47	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/21/23 07:40	11/23/23 02:47	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/21/23 07:40	11/23/23 02:47	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/21/23 07:40	11/23/23 02:47	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/21/23 07:40	11/23/23 02:47	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 02:47	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/21/23 07:40	11/23/23 02:47	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/21/23 07:40	11/23/23 02:47	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/21/23 07:40	11/23/23 02:47	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 02:47	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 02:47	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 02:47	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 02:47	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 02:47	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 02:47	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/21/23 07:40	11/23/23 02:47	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/21/23 07:40	11/23/23 02:47	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/21/23 07:40	11/23/23 02:47	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/21/23 07:40	11/23/23 02:47	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/21/23 07:40	11/23/23 02:47	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/21/23 07:40	11/23/23 02:47	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/21/23 07:40	11/23/23 02:47	1
p-Phenylene diamine	<10.0	U *-	10.0	10.0	ug/L		11/21/23 07:40	11/23/23 02:47	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/21/23 07:40	11/23/23 02:47	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 02:47	1
Pyridine	<0.725	U *- *1	2.00	0.725	ug/L		11/21/23 07:40	11/23/23 02:47	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/21/23 07:40	11/23/23 02:47	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/21/23 07:40	11/23/23 02:47	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/21/23 07:40	11/23/23 02:47	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/21/23 07:40	11/23/23 02:47	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 02:47	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 02:47	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/21/23 07:40	11/23/23 02:47	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/21/23 07:40	11/23/23 02:47	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 02:47	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-34-DR

Lab Sample ID: 860-61596-3

Date Collected: 11/14/23 14:02

Matrix: Water

Date Received: 11/15/23 09:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		31 - 132	11/21/23 07:40	11/23/23 02:47	1
2-Fluorobiphenyl	72		40 - 130	11/21/23 07:40	11/23/23 02:47	1
2-Fluorophenol (Surr)	43		21 - 114	11/21/23 07:40	11/23/23 02:47	1
Nitrobenzene-d5 (Surr)	62		37 - 130	11/21/23 07:40	11/23/23 02:47	1
Phenol-d5 (Surr)	24		16 - 117	11/21/23 07:40	11/23/23 02:47	1
p-Terphenyl-d14	92		20 - 141	11/21/23 07:40	11/23/23 02:47	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.174	U	0.662	0.174	ug/L		11/16/23 11:57	11/20/23 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	82		37 - 133	11/16/23 11:57	11/20/23 18:50	1

Client Sample ID: MW-25

Lab Sample ID: 860-61596-4

Date Collected: 11/14/23 14:57

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.29	U	2.00	1.29	ug/L			11/16/23 14:16	2
1,1,1-Trichloroethane	<1.17	U	10.0	1.17	ug/L			11/16/23 14:16	2
1,1,2,2-Tetrachloroethane	<0.940	U	2.00	0.940	ug/L			11/16/23 14:16	2
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.22	U	20.0	2.22	ug/L			11/16/23 14:16	2
1,1,2-Trichloroethane	<0.822	U	2.00	0.822	ug/L			11/16/23 14:16	2
1,1-Dichloroethane	<1.27	U	2.00	1.27	ug/L			11/16/23 14:16	2
1,1-Dichloroethene	<1.48	U	2.00	1.48	ug/L			11/16/23 14:16	2
1,2,3-Trichloropropane	<0.940	U	2.00	0.940	ug/L			11/16/23 14:16	2
1,2,4-Trimethylbenzene	<0.834	U	2.00	0.834	ug/L			11/16/23 14:16	2
1,2-Dibromo-3-Chloropropane	<1.34	U	10.0	1.34	ug/L			11/16/23 14:16	2
1,2-Dibromoethane	<2.00	U	10.0	2.00	ug/L			11/16/23 14:16	2
1,2-Dichloroethane	<0.744	U	2.00	0.744	ug/L			11/16/23 14:16	2
1,2-Dichloropropane	<1.11	U	10.0	1.11	ug/L			11/16/23 14:16	2
1,3,5-Trimethylbenzene	<0.822	U	2.00	0.822	ug/L			11/16/23 14:16	2
1,3-Butadiene	<1.14	U	2.00	1.14	ug/L			11/16/23 14:16	2
2,2,4-Trimethylpentane	<1.00	U	10.0	1.00	ug/L			11/16/23 14:16	2
2-Butanone (MEK)	<16.6	U	100	16.6	ug/L			11/16/23 14:16	2
2-Hexanone (MBK)	<14.9	U	100	14.9	ug/L			11/16/23 14:16	2
2-Propanol	<10.5	U *+	20.0	10.5	ug/L			11/16/23 14:16	2
3-Chloropropene (Allyl Chloride)	<1.19	U	10.0	1.19	ug/L			11/16/23 14:16	2
4-Methyl-2-pentanone	<15.0	U	100	15.0	ug/L			11/16/23 14:16	2
Acetone	<6.13	U	200	6.13	ug/L			11/16/23 14:16	2
Acetonitrile	<29.2	U	200	29.2	ug/L			11/16/23 14:16	2
Acrolein	<22.2	U	100	22.2	ug/L			11/16/23 14:16	2
Acrylonitrile	<28.6	U	100	28.6	ug/L			11/16/23 14:16	2
alpha-Chlorotoluene	<4.51	U	10.0	4.51	ug/L			11/16/23 14:16	2
Benzene	<0.919	U	2.00	0.919	ug/L			11/16/23 14:16	2
Bromodichloromethane	<1.10	U	2.00	1.10	ug/L			11/16/23 14:16	2
Bromoform	<1.27	U	10.0	1.27	ug/L			11/16/23 14:16	2
Bromomethane	<2.84	U	10.0	2.84	ug/L			11/16/23 14:16	2
Carbon disulfide	<3.30	U	10.0	3.30	ug/L			11/16/23 14:16	2

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-25

Lab Sample ID: 860-61596-4

Date Collected: 11/14/23 14:57

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<1.79	U	10.0	1.79	ug/L			11/16/23 14:16	2
Chlorobenzene	<0.910	U	2.00	0.910	ug/L			11/16/23 14:16	2
Chlorodibromomethane	<1.09	U	10.0	1.09	ug/L			11/16/23 14:16	2
Chloroethane	<3.97	U	20.0	3.97	ug/L			11/16/23 14:16	2
Chloroform	<0.928	U	2.00	0.928	ug/L			11/16/23 14:16	2
Chloromethane	<4.07	U	20.0	4.07	ug/L			11/16/23 14:16	2
Chloroprene	<1.20	U	10.0	1.20	ug/L			11/16/23 14:16	2
cis-1,2-Dichloroethene	<0.914	U	2.00	0.914	ug/L			11/16/23 14:16	2
cis-1,3-Dichloropropene	<2.13	U	10.0	2.13	ug/L			11/16/23 14:16	2
Cumene (isopropylbenzene)	<1.18	U	2.00	1.18	ug/L			11/16/23 14:16	2
Cyclohexane	<2.57	U	10.0	2.57	ug/L			11/16/23 14:16	2
Dibromomethane	<0.714	U	2.00	0.714	ug/L			11/16/23 14:16	2
Dichlorodifluoromethane	<1.57	U	2.00	1.57	ug/L			11/16/23 14:16	2
Ethyl methacrylate	<2.24	U	10.0	2.24	ug/L			11/16/23 14:16	2
Ethylbenzene	<0.770	U	2.00	0.770	ug/L			11/16/23 14:16	2
Hexane	<1.03	U	10.0	1.03	ug/L			11/16/23 14:16	2
Iodomethane	<13.0	U	40.0	13.0	ug/L			11/16/23 14:16	2
Isobutanol	<34.2	U *	100	34.2	ug/L			11/16/23 14:16	2
Methacrylonitrile	<5.43	U	20.0	5.43	ug/L			11/16/23 14:16	2
Methyl methacrylate	<4.50	U	20.0	4.50	ug/L			11/16/23 14:16	2
Methyl tert-butyl ether	<2.78	U	10.0	2.78	ug/L			11/16/23 14:16	2
Methylene Chloride	<3.45	U	10.0	3.45	ug/L			11/16/23 14:16	2
Propionitrile	<6.68	U	20.0	6.68	ug/L			11/16/23 14:16	2
Propylbenzene	<0.858	U	2.00	0.858	ug/L			11/16/23 14:16	2
Styrene	<1.24	U	2.00	1.24	ug/L			11/16/23 14:16	2
Tetrachloroethene	<1.31	U	2.00	1.31	ug/L			11/16/23 14:16	2
Tetrahydrofuran	<3.67	U	20.0	3.67	ug/L			11/16/23 14:16	2
Toluene	<0.950	U	2.00	0.950	ug/L			11/16/23 14:16	2
trans-1,2-Dichloroethene	<0.736	U	2.00	0.736	ug/L			11/16/23 14:16	2
trans-1,3-Dichloropropene	<2.53	U	10.0	2.53	ug/L			11/16/23 14:16	2
trans-1,4-Dichloro-2-butene	<2.70	U	20.0	2.70	ug/L			11/16/23 14:16	2
Trichloroethene	<3.00	U	10.0	3.00	ug/L			11/16/23 14:16	2
Trichlorofluoromethane	<1.12	U	2.00	1.12	ug/L			11/16/23 14:16	2
Vinyl acetate	<4.28	U	40.0	4.28	ug/L			11/16/23 14:16	2
Vinyl chloride	<0.856	U	4.00	0.856	ug/L			11/16/23 14:16	2
Xylenes, Total	<2.48	U	20.0	2.48	ug/L			11/16/23 14:16	2
m,p-Xylenes	<0.00248	U	0.0200	0.00248	mg/L			11/16/23 14:16	2
o-Xylene	<0.00100	U	0.00200	0.00100	mg/L			11/16/23 14:16	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		11/16/23 14:16	2
4-Bromofluorobenzene (Surr)	101		74 - 124		11/16/23 14:16	2
Dibromofluoromethane (Surr)	102		75 - 131		11/16/23 14:16	2
Toluene-d8 (Surr)	104		80 - 120		11/16/23 14:16	2

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 03:08	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/21/23 07:40	11/23/23 03:08	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/21/23 07:40	11/23/23 03:08	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-25

Lab Sample ID: 860-61596-4

Date Collected: 11/14/23 14:57

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/21/23 07:40	11/23/23 03:08	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/21/23 07:40	11/23/23 03:08	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/21/23 07:40	11/23/23 03:08	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/21/23 07:40	11/23/23 03:08	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 03:08	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/21/23 07:40	11/23/23 03:08	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 03:08	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/21/23 07:40	11/23/23 03:08	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/21/23 07:40	11/23/23 03:08	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/21/23 07:40	11/23/23 03:08	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 03:08	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/21/23 07:40	11/23/23 03:08	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 03:08	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/21/23 07:40	11/23/23 03:08	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/21/23 07:40	11/23/23 03:08	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 03:08	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 03:08	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/21/23 07:40	11/23/23 03:08	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/21/23 07:40	11/23/23 03:08	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/21/23 07:40	11/23/23 03:08	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/21/23 07:40	11/23/23 03:08	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 03:08	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/21/23 07:40	11/23/23 03:08	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/21/23 07:40	11/23/23 03:08	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 03:08	1
2-Picoline	<0.215	U *- *1	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 03:08	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/21/23 07:40	11/23/23 03:08	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/21/23 07:40	11/23/23 03:08	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/21/23 07:40	11/23/23 03:08	1
3,3'-Dimethylbenzidine	<0.444	U *-	8.00	0.444	ug/L		11/21/23 07:40	11/23/23 03:08	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/21/23 07:40	11/23/23 03:08	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/21/23 07:40	11/23/23 03:08	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/21/23 07:40	11/23/23 03:08	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/21/23 07:40	11/23/23 03:08	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/21/23 07:40	11/23/23 03:08	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/21/23 07:40	11/23/23 03:08	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/21/23 07:40	11/23/23 03:08	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 03:08	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/21/23 07:40	11/23/23 03:08	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/21/23 07:40	11/23/23 03:08	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/21/23 07:40	11/23/23 03:08	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/21/23 07:40	11/23/23 03:08	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 03:08	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/21/23 07:40	11/23/23 03:08	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/21/23 07:40	11/23/23 03:08	1
Aniline	<0.314	U *-	4.00	0.314	ug/L		11/21/23 07:40	11/23/23 03:08	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/21/23 07:40	11/23/23 03:08	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 03:08	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 03:08	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-25

Lab Sample ID: 860-61596-4

Date Collected: 11/14/23 14:57

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 03:08	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/21/23 07:40	11/23/23 03:08	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 03:08	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/21/23 07:40	11/23/23 03:08	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/21/23 07:40	11/23/23 03:08	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/21/23 07:40	11/23/23 03:08	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/21/23 07:40	11/23/23 03:08	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/21/23 07:40	11/23/23 03:08	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 03:08	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 03:08	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 03:08	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 03:08	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/21/23 07:40	11/23/23 03:08	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/21/23 07:40	11/23/23 03:08	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/21/23 07:40	11/23/23 03:08	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 03:08	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/21/23 07:40	11/23/23 03:08	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/21/23 07:40	11/23/23 03:08	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/21/23 07:40	11/23/23 03:08	1
Diphenyl ether	1.16	J	8.00	0.364	ug/L		11/21/23 07:40	11/23/23 03:08	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/21/23 07:40	11/23/23 03:08	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 03:08	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/21/23 07:40	11/23/23 03:08	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/21/23 07:40	11/23/23 03:08	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 03:08	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/21/23 07:40	11/23/23 03:08	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 03:08	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/21/23 07:40	11/23/23 03:08	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/21/23 07:40	11/23/23 03:08	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/21/23 07:40	11/23/23 03:08	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/21/23 07:40	11/23/23 03:08	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/21/23 07:40	11/23/23 03:08	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/21/23 07:40	11/23/23 03:08	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 03:08	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/21/23 07:40	11/23/23 03:08	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/21/23 07:40	11/23/23 03:08	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/21/23 07:40	11/23/23 03:08	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/21/23 07:40	11/23/23 03:08	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/21/23 07:40	11/23/23 03:08	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/21/23 07:40	11/23/23 03:08	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/21/23 07:40	11/23/23 03:08	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 03:08	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/21/23 07:40	11/23/23 03:08	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/21/23 07:40	11/23/23 03:08	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/21/23 07:40	11/23/23 03:08	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 03:08	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 03:08	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 03:08	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 03:08	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-25

Lab Sample ID: 860-61596-4

Date Collected: 11/14/23 14:57

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 03:08	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 03:08	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/21/23 07:40	11/23/23 03:08	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/21/23 07:40	11/23/23 03:08	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/21/23 07:40	11/23/23 03:08	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/21/23 07:40	11/23/23 03:08	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/21/23 07:40	11/23/23 03:08	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/21/23 07:40	11/23/23 03:08	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/21/23 07:40	11/23/23 03:08	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/21/23 07:40	11/23/23 03:08	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/21/23 07:40	11/23/23 03:08	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 03:08	1
Pyridine	<0.725	U * - *1	2.00	0.725	ug/L		11/21/23 07:40	11/23/23 03:08	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/21/23 07:40	11/23/23 03:08	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/21/23 07:40	11/23/23 03:08	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/21/23 07:40	11/23/23 03:08	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/21/23 07:40	11/23/23 03:08	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 03:08	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 03:08	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/21/23 07:40	11/23/23 03:08	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/21/23 07:40	11/23/23 03:08	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 03:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		31 - 132	11/21/23 07:40	11/23/23 03:08	1
2-Fluorobiphenyl	81		40 - 130	11/21/23 07:40	11/23/23 03:08	1
2-Fluorophenol (Surr)	46		21 - 114	11/21/23 07:40	11/23/23 03:08	1
Nitrobenzene-d5 (Surr)	64		37 - 130	11/21/23 07:40	11/23/23 03:08	1
Phenol-d5 (Surr)	28		16 - 117	11/21/23 07:40	11/23/23 03:08	1
p-Terphenyl-d14	95		20 - 141	11/21/23 07:40	11/23/23 03:08	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.92		0.667	0.175	ug/L		11/16/23 11:57	11/20/23 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	78		37 - 133	11/16/23 11:57	11/20/23 19:20	1

Client Sample ID: TB-10 (111423)

Lab Sample ID: 860-61596-5

Date Collected: 11/14/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 11:32	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 11:32	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 11:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 11:32	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 11:32	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 11:32	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 11:32	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: TB-10 (111423)

Lab Sample ID: 860-61596-5

Date Collected: 11/14/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 11:32	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 11:32	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 11:32	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 11:32	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 11:32	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 11:32	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 11:32	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 11:32	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 11:32	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 11:32	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 11:32	1
2-Propanol	<5.23	U *+	10.0	5.23	ug/L			11/16/23 11:32	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 11:32	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 11:32	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 11:32	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 11:32	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 11:32	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 11:32	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 11:32	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 11:32	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 11:32	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 11:32	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 11:32	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 11:32	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 11:32	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 11:32	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 11:32	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 11:32	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 11:32	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 11:32	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 11:32	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 11:32	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 11:32	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 11:32	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 11:32	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 11:32	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 11:32	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 11:32	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 11:32	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 11:32	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 11:32	1
Isobutanol	<17.1	U *+	50.0	17.1	ug/L			11/16/23 11:32	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 11:32	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 11:32	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 11:32	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 11:32	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 11:32	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 11:32	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 11:32	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: TB-10 (111423)

Lab Sample ID: 860-61596-5

Date Collected: 11/14/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 11:32	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 11:32	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 11:32	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 11:32	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 11:32	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 11:32	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 11:32	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 11:32	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 11:32	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 11:32	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 11:32	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 11:32	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 11:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/16/23 11:32	1
4-Bromofluorobenzene (Surr)	95		74 - 124		11/16/23 11:32	1
Dibromofluoromethane (Surr)	102		75 - 131		11/16/23 11:32	1
Toluene-d8 (Surr)	101		80 - 120		11/16/23 11:32	1

Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-61298-A-1 MS	Matrix Spike	100	95	102	99
860-61596-1	MW-34-SR	102	94	103	99
860-61596-2	MW-129-D	103	95	103	97
860-61596-3	MW-34-DR	102	96	103	101
860-61596-4	MW-25	101	101	102	104
860-61596-5	TB-10 (111423)	102	95	102	101
LCS 860-131293/3	Lab Control Sample	99	97	101	101
LCSD 860-131293/4	Lab Control Sample Dup	100	96	102	99
MB 860-131293/9	Method Blank	103	95	103	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	2FP (19-120)	FBP (43-130)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-61596-1	MW-34-SR				117		
860-61596-2	MW-129-D				77		
860-61596-3	MW-34-DR				82		
860-61596-4	MW-25				78		
860-61897-C-9-B MS	Matrix Spike	107	81	90	119	58	81
860-61897-C-9-C MSD	Matrix Spike Duplicate	107	93	80	124	69	97
LCS 860-131401/2-A	Lab Control Sample	69	49	88	95	35	85
LCS 860-132138/2-A	Lab Control Sample	90	66	83	114	60	98
LCSD 860-131401/3-A	Lab Control Sample Dup	68	46	93	87	29	87
LCSD 860-132138/3-A	Lab Control Sample Dup	92	68	96	120	61	101
MB 860-131401/1-A	Method Blank	64	47	79	118	33	80
MB 860-132138/1-A	Method Blank	81	60	87	107	53	105

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
2FP = 2-Fluorophenol (Surr)
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (31-132)	FBP (40-130)	2FP (21-114)	NBZ (37-130)	PHL (16-117)	TPHd14 (20-141)
860-61596-1	MW-34-SR	59	55	37	54	22	85
860-61596-2	MW-129-D	67	67	42	58	24	80

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Surrogate Summary

Client: Ashland LLC

Job ID: 860-61596-1

Project/Site: Hercules Hattiesburg, MS

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (31-132)	FBP (40-130)	2FP (21-114)	NBZ (37-130)	PHL (16-117)	TPHd14 (20-141)
860-61596-3	MW-34-DR	74	72	43	62	24	92
860-61596-4	MW-25	79	81	46	64	28	95
LCS 860-132037/2-A	Lab Control Sample	72	70	50	65	38	109
LCSD 860-132037/3-A	Lab Control Sample Dup	148 S1+	137 S1+	104	132 S1+	79	221 S1+
MB 860-132037/1-A	Method Blank	50	53	39	56	22	99

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-131293/9

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 09:49	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 09:49	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 09:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 09:49	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 09:49	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 09:49	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 09:49	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 09:49	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 09:49	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 09:49	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 09:49	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 09:49	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 09:49	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 09:49	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 09:49	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 09:49	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 09:49	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 09:49	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/16/23 09:49	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 09:49	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 09:49	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 09:49	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 09:49	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 09:49	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 09:49	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 09:49	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 09:49	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 09:49	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 09:49	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 09:49	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 09:49	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 09:49	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 09:49	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 09:49	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 09:49	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 09:49	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 09:49	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 09:49	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 09:49	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 09:49	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 09:49	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 09:49	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 09:49	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 09:49	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 09:49	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 09:49	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 09:49	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 09:49	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131293/9

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/16/23 09:49	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 09:49	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 09:49	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 09:49	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 09:49	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 09:49	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 09:49	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 09:49	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 09:49	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 09:49	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 09:49	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 09:49	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 09:49	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 09:49	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 09:49	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 09:49	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 09:49	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 09:49	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 09:49	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 09:49	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 09:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		11/16/23 09:49	1
4-Bromofluorobenzene (Surr)	95		74 - 124		11/16/23 09:49	1
Dibromofluoromethane (Surr)	103		75 - 131		11/16/23 09:49	1
Toluene-d8 (Surr)	98		80 - 120		11/16/23 09:49	1

Lab Sample ID: LCS 860-131293/3

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	48.65		ug/L		97	72 - 125
1,1,1-Trichloroethane	50.0	47.19		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.54		ug/L		103	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.08		ug/L		94	60 - 140
1,1,2-Trichloroethane	50.0	49.74		ug/L		99	70 - 130
1,1-Dichloroethane	50.0	47.86		ug/L		96	70 - 130
1,1-Dichloroethene	50.0	45.77		ug/L		92	50 - 150
1,2,3-Trichloropropane	50.0	50.38		ug/L		101	75 - 125
1,2,4-Trimethylbenzene	50.0	48.28		ug/L		97	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	52.71		ug/L		105	59 - 125
1,2-Dibromoethane	50.0	51.07		ug/L		102	73 - 125
1,2-Dichloroethane	50.0	50.86		ug/L		102	72 - 130
1,2-Dichloropropane	50.0	48.78		ug/L		98	74 - 125
1,3,5-Trimethylbenzene	50.0	48.09		ug/L		96	60 - 140
1,3-Butadiene	50.0	43.04		ug/L		86	60 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131293/3

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	47.45		ug/L		95	70 - 130
2-Butanone (MEK)	250	281.2		ug/L		112	60 - 140
2-Hexanone (MBK)	250	277.1		ug/L		111	60 - 140
2-Propanol	500	804.8	*+	ug/L		161	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	46.57		ug/L		93	70 - 130
4-Methyl-2-pentanone	250	272.1		ug/L		109	60 - 140
Acetone	250	258.1		ug/L		103	60 - 140
Acetonitrile	500	567.3		ug/L		113	60 - 140
Acrolein	250	254.0		ug/L		102	60 - 140
Acrylonitrile	500	523.3		ug/L		105	60 - 140
alpha-Chlorotoluene	50.0	47.84		ug/L		96	75 - 125
Benzene	50.0	48.36		ug/L		97	75 - 125
Bromodichloromethane	50.0	48.92		ug/L		98	75 - 125
Bromoform	50.0	48.74		ug/L		97	70 - 130
Bromomethane	50.0	51.30		ug/L		103	60 - 140
Carbon disulfide	50.0	40.39		ug/L		81	60 - 140
Carbon tetrachloride	50.0	46.97		ug/L		94	70 - 130
Chlorobenzene	50.0	49.07		ug/L		98	65 - 135
Chlorodibromomethane	50.0	48.48		ug/L		97	73 - 125
Chloroethane	50.0	48.35		ug/L		97	60 - 140
Chloroform	50.0	48.87		ug/L		98	70 - 121
Chloromethane	50.0	41.85		ug/L		84	60 - 140
Chloroprene	50.0	47.33		ug/L		95	70 - 130
cis-1,2-Dichloroethene	50.0	47.10		ug/L		94	75 - 125
cis-1,3-Dichloropropene	50.0	48.14		ug/L		96	74 - 125
Cumene (isopropylbenzene)	50.0	49.23		ug/L		98	75 - 125
Cyclohexane	50.0	45.90		ug/L		92	70 - 130
Dibromomethane	50.0	50.72		ug/L		101	69 - 127
Dichlorodifluoromethane	50.0	37.27		ug/L		75	50 - 150
Ethyl methacrylate	50.0	50.25		ug/L		101	70 - 130
Ethylbenzene	50.0	49.31		ug/L		99	75 - 125
Hexane	50.0	43.20		ug/L		86	72 - 125
Iodomethane	50.0	53.66		ug/L		107	75 - 125
Isobutanol	1240	1834	*+	ug/L		148	60 - 140
Methacrylonitrile	500	528.2		ug/L		106	70 - 130
Methyl methacrylate	100	102.8		ug/L		103	70 - 130
Methyl tert-butyl ether	50.0	48.93		ug/L		98	65 - 135
Methylene Chloride	50.0	47.98		ug/L		96	71 - 125
Propionitrile	500	579.5		ug/L		116	70 - 130
Propylbenzene	50.0	48.63		ug/L		97	75 - 125
Styrene	50.0	49.45		ug/L		99	75 - 125
Tetrachloroethene	50.0	48.57		ug/L		97	71 - 125
Tetrahydrofuran	100	108.8		ug/L		109	75 - 125
Toluene	50.0	48.23		ug/L		96	70 - 130
trans-1,2-Dichloroethene	50.0	47.42		ug/L		95	75 - 125
trans-1,3-Dichloropropene	50.0	47.99		ug/L		96	66 - 125
trans-1,4-Dichloro-2-butene	50.0	50.95		ug/L		102	70 - 130
Trichloroethene	50.0	49.12		ug/L		98	75 - 135
Trichlorofluoromethane	50.0	50.30		ug/L		101	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131293/3

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	249.2		ug/L		100	60 - 140
Vinyl chloride	50.0	43.06		ug/L		86	60 - 140
Xylenes, Total	100	98.26		ug/L		98	75 - 125
m,p-Xylenes	0.0500	0.04913		mg/L		98	75 - 125
o-Xylene	0.0500	0.04913		mg/L		98	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LCSD 860-131293/4

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	45.53		ug/L		91	72 - 125	7	25
1,1,1-Trichloroethane	50.0	44.51		ug/L		89	70 - 130	6	25
1,1,2,2-Tetrachloroethane	50.0	48.34		ug/L		97	74 - 125	6	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.54		ug/L		89	60 - 140	6	25
1,1,2-Trichloroethane	50.0	46.98		ug/L		94	70 - 130	6	25
1,1-Dichloroethane	50.0	45.57		ug/L		91	70 - 130	5	25
1,1-Dichloroethene	50.0	43.40		ug/L		87	50 - 150	5	25
1,2,3-Trichloropropane	50.0	46.81		ug/L		94	75 - 125	7	25
1,2,4-Trimethylbenzene	50.0	45.33		ug/L		91	75 - 125	6	25
1,2-Dibromo-3-Chloropropane	50.0	48.60		ug/L		97	59 - 125	8	25
1,2-Dibromoethane	50.0	48.14		ug/L		96	73 - 125	6	25
1,2-Dichloroethane	50.0	48.61		ug/L		97	72 - 130	5	25
1,2-Dichloropropane	50.0	46.32		ug/L		93	74 - 125	5	25
1,3,5-Trimethylbenzene	50.0	45.23		ug/L		90	60 - 140	6	25
1,3-Butadiene	50.0	41.77		ug/L		84	60 - 150	3	25
2,2,4-Trimethylpentane	50.0	45.79		ug/L		92	70 - 130	4	25
2-Butanone (MEK)	250	269.8		ug/L		108	60 - 140	4	25
2-Hexanone (MBK)	250	256.5		ug/L		103	60 - 140	8	25
2-Propanol	500	781.4	++	ug/L		156	70 - 120	3	25
3-Chloropropene (Allyl Chloride)	50.0	42.73		ug/L		85	70 - 130	9	25
4-Methyl-2-pentanone	250	257.4		ug/L		103	60 - 140	6	25
Acetone	250	250.1		ug/L		100	60 - 140	3	25
Acetonitrile	500	549.4		ug/L		110	60 - 140	3	25
Acrolein	250	246.6		ug/L		99	60 - 140	3	25
Acrylonitrile	500	505.3		ug/L		101	60 - 140	4	25
alpha-Chlorotoluene	50.0	43.07		ug/L		86	75 - 125	11	25
Benzene	50.0	45.63		ug/L		91	75 - 125	6	25
Bromodichloromethane	50.0	46.81		ug/L		94	75 - 125	4	25
Bromoform	50.0	46.51		ug/L		93	70 - 130	5	25
Bromomethane	50.0	46.44		ug/L		93	60 - 140	10	25
Carbon disulfide	50.0	38.27		ug/L		77	60 - 140	5	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131293/4

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	44.35		ug/L		89	70 - 130	6	25
Chlorobenzene	50.0	45.75		ug/L		91	65 - 135	7	25
Chlorodibromomethane	50.0	46.02		ug/L		92	73 - 125	5	25
Chloroethane	50.0	44.98		ug/L		90	60 - 140	7	25
Chloroform	50.0	46.45		ug/L		93	70 - 121	5	25
Chloromethane	50.0	40.50		ug/L		81	60 - 140	3	25
Chloroprene	50.0	45.83		ug/L		92	70 - 130	3	25
cis-1,2-Dichloroethene	50.0	44.67		ug/L		89	75 - 125	5	25
cis-1,3-Dichloropropene	50.0	46.55		ug/L		93	74 - 125	3	25
Cumene (isopropylbenzene)	50.0	46.28		ug/L		93	75 - 125	6	25
Cyclohexane	50.0	43.92		ug/L		88	70 - 130	4	25
Dibromomethane	50.0	48.69		ug/L		97	69 - 127	4	25
Dichlorodifluoromethane	50.0	34.62		ug/L		69	50 - 150	7	25
Ethyl methacrylate	50.0	47.52		ug/L		95	70 - 130	6	25
Ethylbenzene	50.0	45.80		ug/L		92	75 - 125	7	25
Hexane	50.0	42.21		ug/L		84	72 - 125	2	25
Iodomethane	50.0	51.46		ug/L		103	75 - 125	4	25
Isobutanol	1240	1790	*+	ug/L		144	60 - 140	2	25
Methacrylonitrile	500	502.8		ug/L		101	70 - 130	5	25
Methyl methacrylate	100	99.21		ug/L		99	70 - 130	4	25
Methyl tert-butyl ether	50.0	47.28		ug/L		95	65 - 135	3	25
Methylene Chloride	50.0	45.67		ug/L		91	71 - 125	5	25
Propionitrile	500	570.5		ug/L		114	70 - 130	2	25
Propylbenzene	50.0	45.42		ug/L		91	75 - 125	7	25
Styrene	50.0	46.72		ug/L		93	75 - 125	6	25
Tetrachloroethene	50.0	45.36		ug/L		91	71 - 125	7	25
Tetrahydrofuran	100	101.3		ug/L		101	75 - 125	7	25
Toluene	50.0	45.02		ug/L		90	70 - 130	7	25
trans-1,2-Dichloroethene	50.0	45.14		ug/L		90	75 - 125	5	25
trans-1,3-Dichloropropene	50.0	45.36		ug/L		91	66 - 125	6	25
trans-1,4-Dichloro-2-butene	50.0	45.96		ug/L		92	70 - 130	10	25
Trichloroethene	50.0	46.26		ug/L		93	75 - 135	6	25
Trichlorofluoromethane	50.0	48.16		ug/L		96	60 - 140	4	25
Vinyl acetate	250	237.3		ug/L		95	60 - 140	5	25
Vinyl chloride	50.0	41.27		ug/L		83	60 - 140	4	25
Xylenes, Total	100	91.58		ug/L		92	75 - 125	7	25
m,p-Xylenes	0.0500	0.04559		mg/L		91	75 - 125	7	25
o-Xylene	0.0500	0.04599		mg/L		92	75 - 125	7	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	99		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61298-A-1 MS

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	46.07		ug/L		92	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	46.64		ug/L		93	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	48.59		ug/L		97	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	47.62		ug/L		95	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	46.98		ug/L		94	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	47.78		ug/L		96	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	47.04		ug/L		94	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	44.66		ug/L		89	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	46.37		ug/L		93	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	46.63		ug/L		93	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	47.86		ug/L		96	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	48.09		ug/L		96	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	47.08		ug/L		94	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	45.42		ug/L		91	70 - 125
1,3-Butadiene	<0.568	U	50.0	48.53		ug/L		97	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	46.71		ug/L		93	70 - 130
2-Butanone (MEK)	<8.28	U	250	246.9		ug/L		99	60 - 140
2-Hexanone (MBK)	<7.45	U	250	246.5		ug/L		99	60 - 140
2-Propanol	<5.23	U *+ F1	500	754.4	F1	ug/L		151	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	51.42		ug/L		103	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	246.1		ug/L		98	60 - 140
Acetone	<3.07	U	250	226.7		ug/L		91	60 - 140
Acetonitrile	<14.6	U	500	522.0		ug/L		104	60 - 140
Acrolein	<11.1	U	250	234.2		ug/L		94	50 - 150
Acrylonitrile	<14.3	U	500	481.4		ug/L		96	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	39.58		ug/L		79	70 - 130
Benzene	<0.460	U	50.0	47.32		ug/L		95	66 - 142
Bromodichloromethane	<0.552	U	50.0	46.78		ug/L		94	75 - 125
Bromoform	<0.633	U	50.0	45.33		ug/L		91	75 - 125
Bromomethane	<1.42	U	50.0	49.40		ug/L		99	60 - 140
Carbon disulfide	<1.65	U	50.0	44.79		ug/L		90	60 - 140
Carbon tetrachloride	<0.896	U	50.0	46.52		ug/L		93	62 - 125
Chlorobenzene	<0.455	U	50.0	47.43		ug/L		95	60 - 133
Chlorodibromomethane	<0.547	U	50.0	46.15		ug/L		92	73 - 125
Chloroethane	<1.98	U	50.0	48.72		ug/L		97	60 - 140
Chloroform	<0.464	U	50.0	47.30		ug/L		95	70 - 130
Chloromethane	<2.04	U	50.0	47.57		ug/L		95	60 - 140
Chloroprene	<0.598	U	50.0	47.81		ug/L		96	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	46.05		ug/L		92	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	46.45		ug/L		93	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	47.44		ug/L		95	75 - 125
Cyclohexane	<1.29	U	50.0	46.15		ug/L		92	70 - 130
Dibromomethane	<0.357	U	50.0	48.01		ug/L		96	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	47.14		ug/L		94	70 - 130
Ethyl methacrylate	<1.12	U	50.0	47.07		ug/L		94	70 - 130
Ethylbenzene	<0.385	U	50.0	47.20		ug/L		94	75 - 125
Hexane	<0.517	U	50.0	45.05		ug/L		90	72 - 125
Iodomethane	<6.52	U	50.0	60.67		ug/L		121	75 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61298-A-1 MS

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Isobutanol	<17.1	U *	1240	1623		ug/L		131	60 - 140
Methacrylonitrile	<2.72	U	500	483.5		ug/L		97	70 - 130
Methyl methacrylate	<2.25	U	100	95.38		ug/L		95	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	46.23		ug/L		92	65 - 135
Methylene Chloride	<1.73	U	50.0	46.72		ug/L		93	75 - 125
Propionitrile	<3.34	U	500	534.2		ug/L		107	70 - 130
Propylbenzene	<0.429	U	50.0	46.35		ug/L		93	75 - 125
Styrene	<0.619	U	50.0	47.13		ug/L		94	75 - 125
Tetrachloroethene	<0.655	U	50.0	47.96		ug/L		96	71 - 125
Tetrahydrofuran	<1.83	U	100	97.66		ug/L		98	75 - 125
Toluene	<0.475	U	50.0	45.97		ug/L		92	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	46.90		ug/L		94	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	46.16		ug/L		92	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	42.85		ug/L		86	70 - 130
Trichloroethene	<1.50	U	50.0	46.60		ug/L		93	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	51.42		ug/L		103	60 - 140
Vinyl acetate	<2.14	U	250	241.3		ug/L		97	60 - 140
Vinyl chloride	<0.428	U	50.0	48.23		ug/L		96	60 - 140
Xylenes, Total	<1.24	U	100	94.53		ug/L		95	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.04743		mg/L		95	75 - 125
o-Xylene	<0.000502	U	0.0500	0.04710		mg/L		94	75 - 125
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	100		63 - 144						
4-Bromofluorobenzene (Surr)	95		74 - 124						
Dibromofluoromethane (Surr)	102		75 - 131						
Toluene-d8 (Surr)	99		80 - 120						

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-131401/1-A

Matrix: Water

Analysis Batch: 131865

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 131401

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.150	U	0.571	0.150	ug/L		11/16/23 11:57	11/20/23 16:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	118		37 - 133				11/16/23 11:57	11/20/23 16:19	1

Lab Sample ID: LCS 860-131401/2-A

Matrix: Water

Analysis Batch: 131865

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 131401

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.86	0.8169		ug/L		29	27 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-131401/2-A

Matrix: Water

Analysis Batch: 131865

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 131401

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	69		35 - 130
2-Fluorophenol (Surr)	49		19 - 120
2-Fluorobiphenyl	88		43 - 130
Nitrobenzene-d5 (Surr)	95		37 - 133
Phenol-d5 (Surr)	35		8 - 124
p-Terphenyl-d14 (Surr)	85		47 - 130

Lab Sample ID: LCSD 860-131401/3-A

Matrix: Water

Analysis Batch: 131865

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 131401

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.86	0.7758		ug/L		27	27 - 130	5	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	68		35 - 130						
2-Fluorophenol (Surr)	46		19 - 120						
2-Fluorobiphenyl	93		43 - 130						
Nitrobenzene-d5 (Surr)	87		37 - 133						
Phenol-d5 (Surr)	29		8 - 124						
p-Terphenyl-d14 (Surr)	87		47 - 130						

Lab Sample ID: MB 860-132138/1-A

Matrix: Water

Analysis Batch: 132198

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132138

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.150	U	0.571	0.150	ug/L		11/21/23 13:11	11/21/23 18:59	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	107		37 - 133				11/21/23 13:11	11/21/23 18:59	1

Lab Sample ID: LCS 860-132138/2-A

Matrix: Water

Analysis Batch: 132198

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132138

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane	2.86	1.103		ug/L		39	27 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	90		35 - 130						
2-Fluorophenol (Surr)	66		19 - 120						
2-Fluorobiphenyl	83		43 - 130						
Nitrobenzene-d5 (Surr)	114		37 - 133						
Phenol-d5 (Surr)	60		8 - 124						
p-Terphenyl-d14 (Surr)	98		47 - 130						

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-132138/3-A

Matrix: Water

Analysis Batch: 132198

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132138

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.86	1.103		ug/L		39	27 - 130	0	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	92		35 - 130						
2-Fluorophenol (Surr)	68		19 - 120						
2-Fluorobiphenyl	96		43 - 130						
Nitrobenzene-d5 (Surr)	120		37 - 133						
Phenol-d5 (Surr)	61		8 - 124						
p-Terphenyl-d14 (Surr)	101		47 - 130						

Lab Sample ID: 860-61897-C-9-B MS

Matrix: Water

Analysis Batch: 132198

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 132138

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	<0.150	U	2.87	0.9785		ug/L		34	28 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
2,4,6-Tribromophenol (Surr)	107		35 - 130								
2-Fluorophenol (Surr)	81		19 - 120								
2-Fluorobiphenyl	90		43 - 130								
Nitrobenzene-d5 (Surr)	119		37 - 133								
Phenol-d5 (Surr)	58		8 - 124								
p-Terphenyl-d14 (Surr)	81		47 - 130								

Lab Sample ID: 860-61897-C-9-C MSD

Matrix: Water

Analysis Batch: 132198

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 132138

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	<0.150	U	2.92	1.056		ug/L		36	28 - 130	8	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
2,4,6-Tribromophenol (Surr)	107		35 - 130								
2-Fluorophenol (Surr)	93		19 - 120								
2-Fluorobiphenyl	80		43 - 130								
Nitrobenzene-d5 (Surr)	124		37 - 133								
Phenol-d5 (Surr)	69		8 - 124								
p-Terphenyl-d14 (Surr)	97		47 - 130								

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 860-132037/1-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/22/23 14:27	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-132037/1-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/21/23 07:40	11/22/23 14:27	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/21/23 07:40	11/22/23 14:27	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/21/23 07:40	11/22/23 14:27	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/21/23 07:40	11/22/23 14:27	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/21/23 07:40	11/22/23 14:27	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/21/23 07:40	11/22/23 14:27	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/22/23 14:27	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/21/23 07:40	11/22/23 14:27	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/21/23 07:40	11/22/23 14:27	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/21/23 07:40	11/22/23 14:27	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/21/23 07:40	11/22/23 14:27	1
3,3'-Dimethylbenzidine	<0.444	U	8.00	0.444	ug/L		11/21/23 07:40	11/22/23 14:27	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/21/23 07:40	11/22/23 14:27	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/21/23 07:40	11/22/23 14:27	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/21/23 07:40	11/22/23 14:27	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/21/23 07:40	11/22/23 14:27	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/21/23 07:40	11/22/23 14:27	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/21/23 07:40	11/22/23 14:27	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/21/23 07:40	11/22/23 14:27	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/22/23 14:27	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/21/23 07:40	11/22/23 14:27	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/21/23 07:40	11/22/23 14:27	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/21/23 07:40	11/22/23 14:27	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/21/23 07:40	11/22/23 14:27	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/21/23 07:40	11/22/23 14:27	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/21/23 07:40	11/22/23 14:27	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/21/23 07:40	11/22/23 14:27	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/21/23 07:40	11/22/23 14:27	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/21/23 07:40	11/22/23 14:27	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-132037/1-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/22/23 14:27	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/22/23 14:27	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/22/23 14:27	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/21/23 07:40	11/22/23 14:27	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/22/23 14:27	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/21/23 07:40	11/22/23 14:27	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/21/23 07:40	11/22/23 14:27	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/21/23 07:40	11/22/23 14:27	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/21/23 07:40	11/22/23 14:27	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/21/23 07:40	11/22/23 14:27	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/22/23 14:27	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/22/23 14:27	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/22/23 14:27	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/22/23 14:27	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/21/23 07:40	11/22/23 14:27	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/21/23 07:40	11/22/23 14:27	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/21/23 07:40	11/22/23 14:27	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/22/23 14:27	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/21/23 07:40	11/22/23 14:27	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/21/23 07:40	11/22/23 14:27	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/21/23 07:40	11/22/23 14:27	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/21/23 07:40	11/22/23 14:27	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/21/23 07:40	11/22/23 14:27	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/22/23 14:27	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/21/23 07:40	11/22/23 14:27	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/21/23 07:40	11/22/23 14:27	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/22/23 14:27	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/21/23 07:40	11/22/23 14:27	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/22/23 14:27	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/21/23 07:40	11/22/23 14:27	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/21/23 07:40	11/22/23 14:27	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/21/23 07:40	11/22/23 14:27	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/21/23 07:40	11/22/23 14:27	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/21/23 07:40	11/22/23 14:27	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/21/23 07:40	11/22/23 14:27	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/22/23 14:27	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/21/23 07:40	11/22/23 14:27	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/21/23 07:40	11/22/23 14:27	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/21/23 07:40	11/22/23 14:27	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/21/23 07:40	11/22/23 14:27	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/22/23 14:27	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-132037/1-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/22/23 14:27	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/22/23 14:27	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/22/23 14:27	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/21/23 07:40	11/22/23 14:27	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/21/23 07:40	11/22/23 14:27	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/21/23 07:40	11/22/23 14:27	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/21/23 07:40	11/22/23 14:27	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/21/23 07:40	11/22/23 14:27	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/21/23 07:40	11/22/23 14:27	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/21/23 07:40	11/22/23 14:27	1
p-Phenylene diamine	<10.0	U	10.0	10.0	ug/L		11/21/23 07:40	11/22/23 14:27	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/21/23 07:40	11/22/23 14:27	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/22/23 14:27	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/21/23 07:40	11/22/23 14:27	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/21/23 07:40	11/22/23 14:27	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/21/23 07:40	11/22/23 14:27	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/21/23 07:40	11/22/23 14:27	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/21/23 07:40	11/22/23 14:27	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/22/23 14:27	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/22/23 14:27	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/21/23 07:40	11/22/23 14:27	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/21/23 07:40	11/22/23 14:27	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/22/23 14:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	50		31 - 132	11/21/23 07:40	11/22/23 14:27	1
2-Fluorobiphenyl	53		40 - 130	11/21/23 07:40	11/22/23 14:27	1
2-Fluorophenol (Surr)	39		21 - 114	11/21/23 07:40	11/22/23 14:27	1
Nitrobenzene-d5 (Surr)	56		37 - 130	11/21/23 07:40	11/22/23 14:27	1
Phenol-d5 (Surr)	22		16 - 117	11/21/23 07:40	11/22/23 14:27	1
p-Terphenyl-d14	99		20 - 141	11/21/23 07:40	11/22/23 14:27	1

Lab Sample ID: LCS 860-132037/2-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	20.0	11.60		ug/L		58	41 - 117
1,2,4,5-Tetrachlorobenzene	20.0	10.58		ug/L		53	39 - 120
1,2,4-Trichlorobenzene	20.0	11.02		ug/L		55	34 - 117
1,2-Dichlorobenzene	20.0	11.70		ug/L		59	38 - 111
1,3,5-Trinitrobenzene	20.0	20.04		ug/L		100	35 - 128
1,3-Dichlorobenzene	20.0	11.44		ug/L		57	37 - 111
1,3-Dinitrobenzene	20.0	13.32		ug/L		67	36 - 131
1,4-Dichlorobenzene	20.0	11.12		ug/L		56	37 - 111
1,4-Naphthoquinone	20.0	12.75		ug/L		64	10 - 150
1-Naphthylamine	20.0	10.96		ug/L		55	40 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-132037/2-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2'-oxybis[1-chloropropane]	20.0	11.25		ug/L		56	10 - 150
2,3,4,6-Tetrachlorophenol	20.0	13.24		ug/L		66	33 - 132
2,4,5-Trichlorophenol	20.0	12.84		ug/L		64	39 - 125
2,4,6-Trichlorophenol	20.0	12.53		ug/L		63	42 - 125
2,4-Dichlorophenol	20.0	10.89		ug/L		54	38 - 120
2,4-Dimethylphenol	20.0	14.90		ug/L		74	39 - 117
2,4-Dinitrophenol	20.0	12.90		ug/L		64	13 - 152
2,4-Dinitrotoluene	20.0	15.19		ug/L		76	41 - 128
2,6-Dichlorophenol	20.0	10.89		ug/L		54	42 - 118
2,6-Dinitrotoluene	20.0	13.30		ug/L		66	42 - 127
2-Acetylaminofluorene	20.0	19.65		ug/L		98	40 - 130
2-Chloronaphthalene	20.0	10.82		ug/L		54	40 - 118
2-Chlorophenol	20.0	11.01		ug/L		55	41 - 108
2-Methylnaphthalene	20.0	11.97		ug/L		60	37 - 112
2-Methylphenol	20.0	10.36		ug/L		52	36 - 125
2-Naphthylamine	20.0	9.512		ug/L		48	40 - 120
2-Nitroaniline	20.0	10.40		ug/L		52	34 - 126
2-Nitrophenol	20.0	12.06		ug/L		60	38 - 125
2-Picoline	20.0	1.676	J *	ug/L		8	11 - 107
2-Toluidine	20.0	8.666		ug/L		43	38 - 124
3 & 4 Methylphenol	20.0	9.423		ug/L		47	35 - 116
3,3'-Dichlorobenzidine	20.0	17.80		ug/L		89	29 - 141
3,3'-Dimethylbenzidine	20.0	1.552	J *	ug/L		8	40 - 130
3-Methylcholanthrene	20.0	19.29		ug/L		96	20 - 130
3-Nitroaniline	20.0	12.91		ug/L		65	42 - 123
4,6-Dinitro-2-methylphenol	20.0	15.48		ug/L		77	12 - 157
4-Aminobiphenyl	20.0	11.63		ug/L		58	20 - 130
4-Bromophenyl phenyl ether	20.0	12.33		ug/L		62	40 - 126
4-Chloro-3-methylphenol	20.0	12.74		ug/L		64	40 - 119
4-Chloroaniline	20.0	9.190		ug/L		46	39 - 111
4-Chlorophenyl phenyl ether	20.0	12.49		ug/L		62	40 - 122
4-Nitroaniline	20.0	14.23		ug/L		71	42 - 125
4-Nitroquinoline-1-oxide	20.0	16.42		ug/L		82	20 - 130
7,12-Dimethylbenz(a)anthracene	20.0	16.11		ug/L		81	40 - 120
Acenaphthene	20.0	12.59		ug/L		63	41 - 116
Acenaphthylene	20.0	12.66		ug/L		63	41 - 118
Acetophenone	20.0	10.78		ug/L		54	23 - 175
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0	
Aniline	20.0	5.809	*-	ug/L		29	31 - 100
Anthracene	20.0	14.09		ug/L		70	39 - 127
Benzo[a]anthracene	20.0	17.84		ug/L		89	40 - 129
Benzo[a]pyrene	20.0	19.08		ug/L		95	36 - 141
Benzo[b]fluoranthene	20.0	18.37		ug/L		92	34 - 139
Benzo[g,h,i]perylene	20.0	21.85		ug/L		109	32 - 141
Benzo[k]fluoranthene	20.0	17.21		ug/L		86	31 - 139
Benzyl alcohol	20.0	11.71		ug/L		59	37 - 102
Bis(2-chloroethoxy)methane	20.0	10.67		ug/L		53	36 - 113
Bis(2-chloroethyl)ether	20.0	11.15		ug/L		56	38 - 111

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-132037/2-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	20.0	18.15		ug/L		91	44 - 136
Butyl benzyl phthalate	20.0	18.84		ug/L		94	44 - 133
Chrysene	20.0	18.19		ug/L		91	41 - 124
Dibenz(a,h)anthracene	20.0	21.87		ug/L		109	35 - 143
Dibenzofuran	20.0	12.16		ug/L		61	41 - 119
Diethyl phthalate	20.0	13.07		ug/L		65	41 - 125
Dimethyl phthalate	20.0	12.85		ug/L		64	42 - 123
Di-n-butyl phthalate	20.0	18.59		ug/L		93	41 - 133
Di-n-octyl phthalate	20.0	17.95		ug/L		90	34 - 145
Diphenyl ether	20.0	11.71		ug/L		59	40 - 130
Ethyl methanesulfonate	20.0	11.25		ug/L		56	40 - 127
Fluoranthene	20.0	18.24		ug/L		91	38 - 132
Fluorene	20.0	12.69		ug/L		63	41 - 121
Hexachlorobenzene	20.0	12.44		ug/L		62	39 - 128
Hexachlorobutadiene	20.0	11.28		ug/L		56	31 - 120
Hexachlorocyclopentadiene	20.0	12.03		ug/L		60	15 - 117
Hexachloroethane	20.0	10.73		ug/L		54	37 - 109
Hexachloropropene	20.0	11.10		ug/L		56	24 - 122
Indeno[1,2,3-cd]pyrene	20.0	21.92		ug/L		110	35 - 141
Isophorone	20.0	12.28		ug/L		61	40 - 115
Methyl methanesulfonate	20.0	10.43		ug/L		52	33 - 120
Naphthalene	20.0	11.41		ug/L		57	37 - 113
Nitrobenzene	20.0	11.27		ug/L		56	37 - 114
N-Nitro-o-toluidine	20.0	14.15		ug/L		71	40 - 120
N-Nitrosodiethylamine	20.0	12.21		ug/L		61	42 - 115
N-Nitrosodimethylamine	20.0	9.955		ug/L		50	28 - 126
N-Nitrosodi-n-butylamine	20.0	9.874		ug/L		49	34 - 122
N-Nitrosodi-n-propylamine	20.0	11.78		ug/L		59	38 - 117
N-Nitrosodiphenylamine	20.0	13.45		ug/L		67	40 - 127
N-Nitrosomethylethylamine	20.0	11.71		ug/L		59	41 - 108
N-Nitrosomorpholine	20.0	11.96		ug/L		60	32 - 115
N-Nitrosopiperidine	20.0	11.70		ug/L		58	39 - 115
N-Nitrosopyrrolidine	20.0	10.84		ug/L		54	36 - 121
p-Dimethylamino azobenzene	20.0	15.42		ug/L		77	38 - 124
Pentachlorobenzene	20.0	11.10		ug/L		55	40 - 123
Pentachloronitrobenzene	20.0	15.00		ug/L		75	40 - 120
Pentachlorophenol	20.0	14.63		ug/L		73	10 - 137
Phenacetin	20.0	16.87		ug/L		84	20 - 130
Phenanthrene	20.0	13.44		ug/L		67	39 - 126
Phenol	20.0	6.728		ug/L		34	15 - 106
p-Phenylene diamine	20.0	<10.0	U *-	ug/L		0	1 - 150
Pronamide	20.0	18.44		ug/L		92	25 - 120
Pyrene	20.0	15.15		ug/L		76	40 - 130
Pyridine	20.0	2.186	*-	ug/L		11	16 - 135
Safrole, Total	20.0	11.85		ug/L		59	40 - 120
Aramite Peak 2	10.0	9.624		ug/L		96	35 - 130
Isosafrole Peak 1	3.20	<2.46	U	ug/L		62	40 - 120
Diallate Peak 2	5.20	3.321	J	ug/L		64	38 - 130
Isosafrole Peak 2	16.8	9.982		ug/L		59	40 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-132037/2-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diallate Peak 1	14.8	9.569		ug/L		65	38 - 130
Aramite Peak 1	10.0	9.715		ug/L		97	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	72		31 - 132
2-Fluorobiphenyl	70		40 - 130
2-Fluorophenol (Surr)	50		21 - 114
Nitrobenzene-d5 (Surr)	65		37 - 130
Phenol-d5 (Surr)	38		16 - 117
p-Terphenyl-d14	109		20 - 141

Lab Sample ID: LCSD 860-132037/3-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132037

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	20.0	11.57		ug/L		58	41 - 117	0	30
1,2,4,5-Tetrachlorobenzene	20.0	11.05		ug/L		55	39 - 120	4	30
1,2,4-Trichlorobenzene	20.0	11.36		ug/L		57	34 - 117	3	30
1,2-Dichlorobenzene	20.0	11.89		ug/L		59	38 - 111	2	30
1,3,5-Trinitrobenzene	20.0	20.09		ug/L		100	35 - 128	0	30
1,3-Dichlorobenzene	20.0	11.83		ug/L		59	37 - 111	3	30
1,3-Dinitrobenzene	20.0	11.64		ug/L		58	36 - 131	13	30
1,4-Dichlorobenzene	20.0	11.52		ug/L		58	37 - 111	3	30
1,4-Naphthoquinone	20.0	12.07		ug/L		60	10 - 150	5	30
1-Naphthylamine	20.0	9.762		ug/L		49	40 - 120	12	30
2,2'-oxybis[1-chloropropane]	20.0	11.47		ug/L		57	10 - 150	2	30
2,3,4,6-Tetrachlorophenol	20.0	12.58		ug/L		63	33 - 132	5	30
2,4,5-Trichlorophenol	20.0	12.52		ug/L		63	39 - 125	3	30
2,4,6-Trichlorophenol	20.0	12.36		ug/L		62	42 - 125	1	30
2,4-Dichlorophenol	20.0	11.27		ug/L		56	38 - 120	3	30
2,4-Dimethylphenol	20.0	15.06		ug/L		75	39 - 117	1	30
2,4-Dinitrophenol	20.0	12.73		ug/L		64	13 - 152	1	30
2,4-Dinitrotoluene	20.0	15.15		ug/L		76	41 - 128	0	30
2,6-Dichlorophenol	20.0	11.58		ug/L		58	42 - 118	6	30
2,6-Dinitrotoluene	20.0	12.72		ug/L		64	42 - 127	4	30
2-Acetylaminofluorene	20.0	20.13		ug/L		101	40 - 130	2	30
2-Chloronaphthalene	20.0	10.93		ug/L		55	40 - 118	1	30
2-Chlorophenol	20.0	11.63		ug/L		58	41 - 108	6	30
2-Methylnaphthalene	20.0	12.11		ug/L		61	37 - 112	1	30
2-Methylphenol	20.0	11.21		ug/L		56	36 - 125	8	30
2-Naphthylamine	20.0	8.477		ug/L		42	40 - 120	12	30
2-Nitroaniline	20.0	10.38		ug/L		52	34 - 126	0	30
2-Nitrophenol	20.0	12.16		ug/L		61	38 - 125	1	30
2-Picoline	20.0	3.293	*1	ug/L		16	11 - 107	65	30
2-Toluidine	20.0	8.374		ug/L		42	38 - 124	3	30
3 & 4 Methylphenol	20.0	9.673		ug/L		48	35 - 116	3	30
3,3'-Dichlorobenzidine	20.0	18.33		ug/L		92	29 - 141	3	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-132037/3-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132037

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dimethylbenzidine	20.0	2.079	J *	ug/L		10	40 - 130	29	30
3-Methylcholanthrene	20.0	19.95		ug/L		100	20 - 130	3	30
3-Nitroaniline	20.0	12.23		ug/L		61	42 - 123	5	30
4,6-Dinitro-2-methylphenol	20.0	15.50		ug/L		77	12 - 157	0	30
4-Aminobiphenyl	20.0	11.72		ug/L		59	20 - 130	1	30
4-Bromophenyl phenyl ether	20.0	12.02		ug/L		60	40 - 126	3	30
4-Chloro-3-methylphenol	20.0	11.51		ug/L		58	40 - 119	10	30
4-Chloroaniline	20.0	9.257		ug/L		46	39 - 111	1	30
4-Chlorophenyl phenyl ether	20.0	11.91		ug/L		60	40 - 122	5	30
4-Nitroaniline	20.0	12.70		ug/L		64	42 - 125	11	30
4-Nitroquinoline-1-oxide	20.0	17.13		ug/L		86	20 - 130	4	30
7,12-Dimethylbenz(a)anthracene	20.0	16.32		ug/L		82	40 - 120	1	30
Acenaphthene	20.0	12.19		ug/L		61	41 - 116	3	30
Acenaphthylene	20.0	12.55		ug/L		63	41 - 118	1	30
Acetophenone	20.0	11.05		ug/L		55	23 - 175	2	30
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0		NC	30
Aniline	20.0	6.446		ug/L		32	31 - 100	10	30
Anthracene	20.0	13.99		ug/L		70	39 - 127	1	30
Benzo[a]anthracene	20.0	18.38		ug/L		92	40 - 129	3	30
Benzo[a]pyrene	20.0	19.30		ug/L		97	36 - 141	1	30
Benzo[b]fluoranthene	20.0	18.95		ug/L		95	34 - 139	3	30
Benzo[g,h,i]perylene	20.0	22.45		ug/L		112	32 - 141	3	30
Benzo[k]fluoranthene	20.0	17.44		ug/L		87	31 - 139	1	30
Benzyl alcohol	20.0	12.42		ug/L		62	37 - 102	6	30
Bis(2-chloroethoxy)methane	20.0	10.90		ug/L		54	36 - 113	2	30
Bis(2-chloroethyl)ether	20.0	11.05		ug/L		55	38 - 111	1	30
Bis(2-ethylhexyl) phthalate	20.0	18.23		ug/L		91	44 - 136	0	30
Butyl benzyl phthalate	20.0	19.26		ug/L		96	44 - 133	2	30
Chrysene	20.0	18.57		ug/L		93	41 - 124	2	30
Dibenz(a,h)anthracene	20.0	22.59		ug/L		113	35 - 143	3	30
Dibenzofuran	20.0	11.84		ug/L		59	41 - 119	3	30
Diethyl phthalate	20.0	12.67		ug/L		63	41 - 125	3	30
Dimethyl phthalate	20.0	12.36		ug/L		62	42 - 123	4	30
Di-n-butyl phthalate	20.0	18.62		ug/L		93	41 - 133	0	30
Di-n-octyl phthalate	20.0	18.30		ug/L		91	34 - 145	2	30
Diphenyl ether	20.0	11.26		ug/L		56	40 - 130	4	30
Ethyl methanesulfonate	20.0	11.33		ug/L		57	40 - 127	1	30
Fluoranthene	20.0	18.33		ug/L		92	38 - 132	1	30
Fluorene	20.0	12.26		ug/L		61	41 - 121	3	30
Hexachlorobenzene	20.0	11.86		ug/L		59	39 - 128	5	30
Hexachlorobutadiene	20.0	11.95		ug/L		60	31 - 120	6	30
Hexachlorocyclopentadiene	20.0	12.55		ug/L		63	15 - 117	4	30
Hexachloroethane	20.0	11.12		ug/L		56	37 - 109	4	30
Hexachloropropene	20.0	11.42		ug/L		57	24 - 122	3	30
Indeno[1,2,3-cd]pyrene	20.0	22.22		ug/L		111	35 - 141	1	30
Isophorone	20.0	12.60		ug/L		63	40 - 115	3	30
Methyl methanesulfonate	20.0	10.34		ug/L		52	33 - 120	1	30
Naphthalene	20.0	11.51		ug/L		58	37 - 113	1	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-132037/3-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132037

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrobenzene	20.0	11.47		ug/L		57	37 - 114	2	30
N-Nitro-o-toluidine	20.0	12.86		ug/L		64	40 - 120	10	30
N-Nitrosodiethylamine	20.0	12.33		ug/L		62	42 - 115	1	30
N-Nitrosodimethylamine	20.0	9.999		ug/L		50	28 - 126	0	30
N-Nitrosodi-n-butylamine	20.0	10.06		ug/L		50	34 - 122	2	30
N-Nitrosodi-n-propylamine	20.0	12.20		ug/L		61	38 - 117	4	30
N-Nitrosodiphenylamine	20.0	13.34		ug/L		67	40 - 127	1	30
N-Nitrosomethylethylamine	20.0	11.93		ug/L		60	41 - 108	2	30
N-Nitrosomorpholine	20.0	11.95		ug/L		60	32 - 115	0	30
N-Nitrosopiperidine	20.0	12.53		ug/L		63	39 - 115	7	30
N-Nitrosopyrrolidine	20.0	11.19		ug/L		56	36 - 121	3	30
p-Dimethylamino azobenzene	20.0	15.71		ug/L		79	38 - 124	2	30
Pentachlorobenzene	20.0	11.11		ug/L		56	40 - 123	0	30
Pentachloronitrobenzene	20.0	13.88		ug/L		69	40 - 120	8	30
Pentachlorophenol	20.0	14.45		ug/L		72	10 - 137	1	30
Phenacetin	20.0	17.34		ug/L		87	20 - 130	3	30
Phenanthrene	20.0	13.11		ug/L		66	39 - 126	3	30
Phenol	20.0	6.960		ug/L		35	15 - 106	3	30
p-Phenylene diamine	20.0	<10.0	U *-	ug/L		0	1 - 150	NC	30
Pronamide	20.0	18.50		ug/L		93	25 - 120	0	30
Pyrene	20.0	15.27		ug/L		76	40 - 130	1	30
Pyridine	20.0	3.703	*1	ug/L		19	16 - 135	51	30
Safrole, Total	20.0	11.99		ug/L		60	40 - 120	1	30
Aramite Peak 2	10.0	9.992		ug/L		100	35 - 130	4	30
Isosafrole Peak 1	3.20	<2.46	U	ug/L		57	40 - 120	8	30
Diallate Peak 2	5.20	3.272	J	ug/L		63	38 - 130	1	30
Isosafrole Peak 2	16.8	9.788		ug/L		58	40 - 120	2	30
Diallate Peak 1	14.8	9.879		ug/L		67	38 - 130	3	30
Aramite Peak 1	10.0	10.28		ug/L		103	35 - 130	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	148	S1+	31 - 132
2-Fluorobiphenyl	137	S1+	40 - 130
2-Fluorophenol (Surr)	104		21 - 114
Nitrobenzene-d5 (Surr)	132	S1+	37 - 130
Phenol-d5 (Surr)	79		16 - 117
p-Terphenyl-d14	221	S1+	20 - 141

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

GC/MS VOA

Analysis Batch: 131293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61596-1	MW-34-SR	Total/NA	Water	8260D	
860-61596-2	MW-129-D	Total/NA	Water	8260D	
860-61596-3	MW-34-DR	Total/NA	Water	8260D	
860-61596-4	MW-25	Total/NA	Water	8260D	
860-61596-5	TB-10 (111423)	Total/NA	Water	8260D	
MB 860-131293/9	Method Blank	Total/NA	Water	8260D	
LCS 860-131293/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-131293/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61298-A-1 MS	Matrix Spike	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 131401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61596-2	MW-129-D	Total/NA	Water	3511	
860-61596-3	MW-34-DR	Total/NA	Water	3511	
860-61596-4	MW-25	Total/NA	Water	3511	
MB 860-131401/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-131401/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-131401/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 131865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61596-2	MW-129-D	Total/NA	Water	8270E	131401
860-61596-3	MW-34-DR	Total/NA	Water	8270E	131401
860-61596-4	MW-25	Total/NA	Water	8270E	131401
MB 860-131401/1-A	Method Blank	Total/NA	Water	8270E	131401
LCS 860-131401/2-A	Lab Control Sample	Total/NA	Water	8270E	131401
LCSD 860-131401/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	131401

Prep Batch: 132037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61596-1	MW-34-SR	Total/NA	Water	3510C	
860-61596-2	MW-129-D	Total/NA	Water	3510C	
860-61596-3	MW-34-DR	Total/NA	Water	3510C	
860-61596-4	MW-25	Total/NA	Water	3510C	
MB 860-132037/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-132037/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-132037/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 132138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61596-1	MW-34-SR	Total/NA	Water	3511	
MB 860-132138/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-132138/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-132138/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
860-61897-C-9-B MS	Matrix Spike	Total/NA	Water	3511	
860-61897-C-9-C MSD	Matrix Spike Duplicate	Total/NA	Water	3511	

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

GC/MS Semi VOA

Analysis Batch: 132198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61596-1	MW-34-SR	Total/NA	Water	8270E	132138
MB 860-132138/1-A	Method Blank	Total/NA	Water	8270E	132138
LCS 860-132138/2-A	Lab Control Sample	Total/NA	Water	8270E	132138
LCSD 860-132138/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	132138
860-61897-C-9-B MS	Matrix Spike	Total/NA	Water	8270E	132138
860-61897-C-9-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270E	132138

Analysis Batch: 132264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-132037/1-A	Method Blank	Total/NA	Water	8270E LL	132037
LCS 860-132037/2-A	Lab Control Sample	Total/NA	Water	8270E LL	132037
LCSD 860-132037/3-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	132037

Analysis Batch: 132390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61596-1	MW-34-SR	Total/NA	Water	8270E LL	132037
860-61596-2	MW-129-D	Total/NA	Water	8270E LL	132037
860-61596-3	MW-34-DR	Total/NA	Water	8270E LL	132037
860-61596-4	MW-25	Total/NA	Water	8270E LL	132037

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Client Sample ID: MW-34-SR

Lab Sample ID: 860-61596-1

Date Collected: 11/14/23 13:07

Matrix: Water

Date Received: 11/15/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131293	11/16/23 11:52	NA	EET HOU
Total/NA	Prep	3511			35.4 mL	2 mL	132138	11/21/23 13:11	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	132198	11/21/23 18:29	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132390	11/23/23 02:05	PXS	EET HOU

Client Sample ID: MW-129-D

Lab Sample ID: 860-61596-2

Date Collected: 11/14/23 13:22

Matrix: Water

Date Received: 11/15/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131293	11/16/23 12:13	NA	EET HOU
Total/NA	Prep	3511			29.7 mL	2 mL	131401	11/16/23 11:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131865	11/20/23 18:20	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132390	11/23/23 02:26	PXS	EET HOU

Client Sample ID: MW-34-DR

Lab Sample ID: 860-61596-3

Date Collected: 11/14/23 14:02

Matrix: Water

Date Received: 11/15/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131293	11/16/23 12:33	NA	EET HOU
Total/NA	Prep	3511			30.2 mL	2 mL	131401	11/16/23 11:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131865	11/20/23 18:50	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132390	11/23/23 02:47	PXS	EET HOU

Client Sample ID: MW-25

Lab Sample ID: 860-61596-4

Date Collected: 11/14/23 14:57

Matrix: Water

Date Received: 11/15/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2	5 mL	5 mL	131293	11/16/23 14:16	NA	EET HOU
Total/NA	Prep	3511			30 mL	2 mL	131401	11/16/23 11:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131865	11/20/23 19:20	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132390	11/23/23 03:08	PXS	EET HOU

Client Sample ID: TB-10 (111423)

Lab Sample ID: 860-61596-5

Date Collected: 11/14/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131293	11/16/23 11:32	NA	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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Accreditation/Certification Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

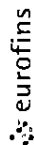
Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61596-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-61596-1	MW-34-SR	Water	11/14/23 13:07	11/15/23 09:50
860-61596-2	MW-129-D	Water	11/14/23 13:22	11/15/23 09:50
860-61596-3	MW-34-DR	Water	11/14/23 14:02	11/15/23 09:50
860-61596-4	MW-25	Water	11/14/23 14:57	11/15/23 09:50
860-61596-5	TB-10 (111423)	Water	11/14/23 00:00	11/15/23 09:50

Area 1

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-61596-1

Login Number: 61596

List Number: 1

Creator: Rubio, Yuri

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-61596-1

Login Number: 61596

List Number: 2

Creator: Rubio, Yuri

List Source: Eurofins Houston

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

ANALYTICAL REPORT

PREPARED FOR

Attn: Timothy Hassett
Ashland LLC
Ashland Hercules Research Center
500 Hercules Rd Bldg 8145
Wilmington, Delaware 19808

Generated 11/29/2023 8:17:14 PM

JOB DESCRIPTION

Hercules Hattiesburg, MS

JOB NUMBER

860-61601-1

Eurofins Houston

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Definitions/Glossary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Job ID: 860-61601-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-61601-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/15/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.9°C and 1.7°C

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 860-131293 recovered above the upper control limit for 1,4-Dioxane (56%), Isobutyl alcohol (33.5%) and Isopropyl alcohol (43.1%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-131293/2).

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-131293 recovered outside control limits for the following analytes: 1,4-Dioxane, Isobutyl alcohol and Isopropyl alcohol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-131293 were outside control limits. Sample matrix interference is suspected.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-68 (860-61601-5), MW-66 (860-61601-10), MW-64 (860-61601-11) and DUPE-03 (860-61601-12). Elevated reporting limits (RLs) are provided.

Method 8260D: The continuing calibration verification (CCV) associated with batch 860-131517 recovered above the upper control limit for 1,4-Dioxane (35.2%), Isobutyl alcohol (21.2%) and Isopropyl alcohol (31.8%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-131517/2).

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-131517 recovered outside control limits for the following analytes: 1,4-Dioxane and Isopropyl alcohol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-131517 were outside control limits. Sample matrix interference is suspected.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-68 (860-61601-5). Elevated reporting limits (RLs) are provided.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-68 (860-61601-5) and (860-61601-G-5 MS). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Job ID: 860-61601-1 (Continued)

Laboratory: Eurofins Houston (Continued)

GC/MS Semi VOA

Method 8270E_LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-131552 and analytical batch 860-131659 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270E_LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-131552 and analytical batch 860-131841 recovered outside control limits for the following analyte(s): 3,3'-Dimethylbenzidine and p-Phenylene diamine. 3,3'-Dimethylbenzidine and p-Phenylene diamine have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E_LL: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-66 (860-61601-10) and DUPE-03 (860-61601-12). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: The following samples were diluted due to the nature of the sample matrix: MW-70 (860-61601-2), MW-68 (860-61601-5) and MW-64 (860-61601-11). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-68 (860-61601-5), MW-66 (860-61601-10) and DUPE-03 (860-61601-12). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-65

Lab Sample ID: 860-61601-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenol	1.10	J	4.00	0.202	ug/L	1		8270E LL	Total/NA

Client Sample ID: MW-70

Lab Sample ID: 860-61601-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,2,4-Trimethylpentane	6.53		5.00	0.500	ug/L	1		8260D	Total/NA
2-Hexanone (MBK)	9.78	J	50.0	7.45	ug/L	1		8260D	Total/NA
Di-n-butyl phthalate	19.0	J	40.0	16.0	ug/L	20		8270E LL	Total/NA

Client Sample ID: MW-71

Lab Sample ID: 860-61601-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenol	0.995	J	4.00	0.202	ug/L	1		8270E LL	Total/NA

Client Sample ID: MW-72

Lab Sample ID: 860-61601-4

No Detections.

Client Sample ID: MW-68

Lab Sample ID: 860-61601-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	45.4		5.00	2.09	ug/L	5		8260D	Total/NA
1,3,5-Trimethylbenzene	13.1		5.00	2.06	ug/L	5		8260D	Total/NA
Benzene	551		5.00	2.30	ug/L	5		8260D	Total/NA
Cumene (isopropylbenzene)	15.4		5.00	2.96	ug/L	5		8260D	Total/NA
Cyclohexane	162		25.0	6.43	ug/L	5		8260D	Total/NA
Ethylbenzene	214		5.00	1.93	ug/L	5		8260D	Total/NA
Hexane	3.63	J	25.0	2.59	ug/L	5		8260D	Total/NA
Propylbenzene	23.6		5.00	2.15	ug/L	5		8260D	Total/NA
Toluene	15.9		5.00	2.38	ug/L	5		8260D	Total/NA
Xylenes, Total	189		50.0	6.20	ug/L	5		8260D	Total/NA
m,p-Xylenes	0.182		0.0500	0.00620	mg/L	5		8260D	Total/NA
o-Xylene	0.00661		0.00500	0.00251	mg/L	5		8260D	Total/NA
2-Methylnaphthalene	17.6	J	40.0	9.59	ug/L	20		8270E LL	Total/NA
Naphthalene	108		40.0	8.46	ug/L	20		8270E LL	Total/NA

Client Sample ID: MW-67

Lab Sample ID: 860-61601-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.440	J	1.00	0.417	ug/L	1		8260D	Total/NA
Benzene	24.6		1.00	0.460	ug/L	1		8260D	Total/NA
Cumene (isopropylbenzene)	2.93		1.00	0.592	ug/L	1		8260D	Total/NA
Cyclohexane	26.2		5.00	1.29	ug/L	1		8260D	Total/NA
Ethylbenzene	1.19		1.00	0.385	ug/L	1		8260D	Total/NA
Propylbenzene	3.04		1.00	0.429	ug/L	1		8260D	Total/NA
Toluene	0.512	J	1.00	0.475	ug/L	1		8260D	Total/NA
Xylenes, Total	2.61	J	10.0	1.24	ug/L	1		8260D	Total/NA
m,p-Xylenes	0.00261	J	0.0100	0.00124	mg/L	1		8260D	Total/NA
2-Methylnaphthalene	0.924	J	2.00	0.480	ug/L	1		8270E LL	Total/NA
Di-n-butyl phthalate	11.7		2.00	0.800	ug/L	1		8270E LL	Total/NA
Naphthalene	8.66		2.00	0.423	ug/L	1		8270E LL	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: RB-03

Lab Sample ID: 860-61601-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	27.5		2.00	0.800	ug/L	1		8270E LL	Total/NA
N-Nitrosodi-n-propylamine	0.912	J	2.00	0.161	ug/L	1		8270E LL	Total/NA

Client Sample ID: MW-69

Lab Sample ID: 860-61601-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	33.5		2.00	0.800	ug/L	1		8270E LL	Total/NA

Client Sample ID: FB-03

Lab Sample ID: 860-61601-9

No Detections.

Client Sample ID: MW-66

Lab Sample ID: 860-61601-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	154		50.0	20.9	ug/L	50		8260D	Total/NA
1,3,5-Trimethylbenzene	50.9		50.0	20.6	ug/L	50		8260D	Total/NA
Benzene	2080		50.0	23.0	ug/L	50		8260D	Total/NA
Ethylbenzene	312		50.0	19.3	ug/L	50		8260D	Total/NA
Hexane	36.2	J	250	25.9	ug/L	50		8260D	Total/NA
Propylbenzene	27.9	J	50.0	21.5	ug/L	50		8260D	Total/NA
Toluene	57.7		50.0	23.8	ug/L	50		8260D	Total/NA
Xylenes, Total	427	J	500	62.0	ug/L	50		8260D	Total/NA
m,p-Xylenes	0.400	J	0.500	0.0620	mg/L	50		8260D	Total/NA
o-Xylene	0.0265	J	0.0500	0.0251	mg/L	50		8260D	Total/NA
2-Methylnaphthalene	14.0		2.00	0.480	ug/L	1		8270E LL	Total/NA
Di-n-butyl phthalate	26.4		2.00	0.800	ug/L	1		8270E LL	Total/NA
Naphthalene - DL	99.4		20.0	4.23	ug/L	10		8270E LL	Total/NA

Client Sample ID: MW-64

Lab Sample ID: 860-61601-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1660		50.0	23.0	ug/L	50		8260D	Total/NA
Cumene (isopropylbenzene)	42.0	J	50.0	29.6	ug/L	50		8260D	Total/NA
Ethylbenzene	227		50.0	19.3	ug/L	50		8260D	Total/NA
Propylbenzene	70.5		50.0	21.5	ug/L	50		8260D	Total/NA
Toluene	42.7	J	50.0	23.8	ug/L	50		8260D	Total/NA
Xylenes, Total	85.5	J	500	62.0	ug/L	50		8260D	Total/NA
m,p-Xylenes	0.0855	J	0.500	0.0620	mg/L	50		8260D	Total/NA
2-Methylnaphthalene	34.7	J	40.0	9.59	ug/L	20		8270E LL	Total/NA
Di-n-butyl phthalate	30.8	J	40.0	16.0	ug/L	20		8270E LL	Total/NA
Naphthalene	191		40.0	8.46	ug/L	20		8270E LL	Total/NA

Client Sample ID: DUPE-03

Lab Sample ID: 860-61601-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1650		50.0	23.0	ug/L	50		8260D	Total/NA
Cumene (isopropylbenzene)	43.0	J	50.0	29.6	ug/L	50		8260D	Total/NA
Ethylbenzene	225		50.0	19.3	ug/L	50		8260D	Total/NA
Propylbenzene	82.5		50.0	21.5	ug/L	50		8260D	Total/NA
Toluene	42.2	J	50.0	23.8	ug/L	50		8260D	Total/NA
Xylenes, Total	84.5	J	500	62.0	ug/L	50		8260D	Total/NA
m,p-Xylenes	0.0845	J	0.500	0.0620	mg/L	50		8260D	Total/NA
2-Methylnaphthalene	32.7		2.00	0.480	ug/L	1		8270E LL	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: DUPE-03 (Continued)

Lab Sample ID: 860-61601-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	24.9		2.00	0.800	ug/L	1		8270E LL	Total/NA
Naphthalene - DL	210		20.0	4.23	ug/L	10		8270E LL	Total/NA

Client Sample ID: TB-08 (111323)

Lab Sample ID: 860-61601-13

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-65

Lab Sample ID: 860-61601-1

Date Collected: 11/13/23 12:39

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 23:57	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 23:57	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 23:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 23:57	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 23:57	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 23:57	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 23:57	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 23:57	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 23:57	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 23:57	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 23:57	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 23:57	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 23:57	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 23:57	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 23:57	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 23:57	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 23:57	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 23:57	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/16/23 23:57	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 23:57	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 23:57	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 23:57	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 23:57	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 23:57	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 23:57	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 23:57	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 23:57	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 23:57	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 23:57	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 23:57	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 23:57	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 23:57	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 23:57	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 23:57	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 23:57	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 23:57	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 23:57	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 23:57	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 23:57	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 23:57	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 23:57	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 23:57	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 23:57	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 23:57	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 23:57	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 23:57	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 23:57	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 23:57	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/16/23 23:57	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-65

Lab Sample ID: 860-61601-1

Date Collected: 11/13/23 12:39

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 23:57	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 23:57	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 23:57	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 23:57	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 23:57	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 23:57	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 23:57	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 23:57	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 23:57	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 23:57	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 23:57	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 23:57	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 23:57	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 23:57	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 23:57	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 23:57	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 23:57	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 23:57	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 23:57	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 23:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/16/23 23:57	1
4-Bromofluorobenzene (Surr)	100		74 - 124		11/16/23 23:57	1
Dibromofluoromethane (Surr)	102		75 - 131		11/16/23 23:57	1
Toluene-d8 (Surr)	99		80 - 120		11/16/23 23:57	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 13:42	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/17/23 08:38	11/18/23 13:42	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/17/23 08:38	11/18/23 13:42	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/17/23 08:38	11/18/23 13:42	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/17/23 08:38	11/18/23 13:42	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/17/23 08:38	11/18/23 13:42	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/17/23 08:38	11/18/23 13:42	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 13:42	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/17/23 08:38	11/18/23 13:42	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 13:42	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/17/23 08:38	11/18/23 13:42	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/17/23 08:38	11/18/23 13:42	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/17/23 08:38	11/18/23 13:42	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 13:42	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/17/23 08:38	11/18/23 13:42	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 13:42	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/17/23 08:38	11/18/23 13:42	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/17/23 08:38	11/18/23 13:42	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 13:42	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 13:42	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/17/23 08:38	11/18/23 13:42	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-65

Lab Sample ID: 860-61601-1

Date Collected: 11/13/23 12:39

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/17/23 08:38	11/18/23 13:42	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/17/23 08:38	11/18/23 13:42	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/17/23 08:38	11/18/23 13:42	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 13:42	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/17/23 08:38	11/18/23 13:42	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/17/23 08:38	11/18/23 13:42	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 13:42	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 13:42	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/17/23 08:38	11/18/23 13:42	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/17/23 08:38	11/18/23 13:42	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/17/23 08:38	11/18/23 13:42	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/17/23 08:38	11/18/23 13:42	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/17/23 08:38	11/18/23 13:42	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/17/23 08:38	11/18/23 13:42	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/17/23 08:38	11/18/23 13:42	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/17/23 08:38	11/18/23 13:42	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/17/23 08:38	11/18/23 13:42	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/17/23 08:38	11/18/23 13:42	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/17/23 08:38	11/18/23 13:42	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 13:42	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/17/23 08:38	11/18/23 13:42	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/17/23 08:38	11/18/23 13:42	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/17/23 08:38	11/18/23 13:42	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/17/23 08:38	11/18/23 13:42	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 13:42	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/17/23 08:38	11/18/23 13:42	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/17/23 08:38	11/18/23 13:42	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/17/23 08:38	11/18/23 13:42	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/17/23 08:38	11/18/23 13:42	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 13:42	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 13:42	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 13:42	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/17/23 08:38	11/18/23 13:42	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 13:42	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/17/23 08:38	11/18/23 13:42	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/17/23 08:38	11/18/23 13:42	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/17/23 08:38	11/18/23 13:42	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/17/23 08:38	11/18/23 13:42	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/17/23 08:38	11/18/23 13:42	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 13:42	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 13:42	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 13:42	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 13:42	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/17/23 08:38	11/18/23 13:42	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/17/23 08:38	11/18/23 13:42	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/17/23 08:38	11/18/23 13:42	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 13:42	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/17/23 08:38	11/18/23 13:42	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/17/23 08:38	11/18/23 13:42	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-65

Lab Sample ID: 860-61601-1

Date Collected: 11/13/23 12:39

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/17/23 08:38	11/18/23 13:42	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/17/23 08:38	11/18/23 13:42	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/17/23 08:38	11/18/23 13:42	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 13:42	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/17/23 08:38	11/18/23 13:42	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/17/23 08:38	11/18/23 13:42	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 13:42	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/17/23 08:38	11/18/23 13:42	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 13:42	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/17/23 08:38	11/18/23 13:42	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/17/23 08:38	11/18/23 13:42	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/17/23 08:38	11/18/23 13:42	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/17/23 08:38	11/18/23 13:42	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/17/23 08:38	11/18/23 13:42	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/17/23 08:38	11/18/23 13:42	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 13:42	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/17/23 08:38	11/18/23 13:42	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/17/23 08:38	11/18/23 13:42	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/17/23 08:38	11/18/23 13:42	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/17/23 08:38	11/18/23 13:42	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/17/23 08:38	11/18/23 13:42	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/17/23 08:38	11/18/23 13:42	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/17/23 08:38	11/18/23 13:42	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 13:42	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/17/23 08:38	11/18/23 13:42	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/17/23 08:38	11/18/23 13:42	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/17/23 08:38	11/18/23 13:42	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 13:42	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 13:42	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 13:42	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 13:42	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 13:42	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 13:42	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/17/23 08:38	11/18/23 13:42	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/17/23 08:38	11/18/23 13:42	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/17/23 08:38	11/18/23 13:42	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/17/23 08:38	11/18/23 13:42	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/17/23 08:38	11/18/23 13:42	1
Phenol	1.10	J	4.00	0.202	ug/L		11/17/23 08:38	11/18/23 13:42	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/17/23 08:38	11/18/23 13:42	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/17/23 08:38	11/18/23 13:42	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/17/23 08:38	11/18/23 13:42	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 13:42	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/17/23 08:38	11/18/23 13:42	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/17/23 08:38	11/18/23 13:42	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/17/23 08:38	11/18/23 13:42	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/17/23 08:38	11/18/23 13:42	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/17/23 08:38	11/18/23 13:42	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 13:42	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-65

Lab Sample ID: 860-61601-1

Date Collected: 11/13/23 12:39

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 13:42	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/17/23 08:38	11/18/23 13:42	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/17/23 08:38	11/18/23 13:42	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		31 - 132	11/17/23 08:38	11/18/23 13:42	1
2-Fluorobiphenyl	55		40 - 130	11/17/23 08:38	11/18/23 13:42	1
2-Fluorophenol (Surr)	29		21 - 114	11/17/23 08:38	11/18/23 13:42	1
Nitrobenzene-d5 (Surr)	37		37 - 130	11/17/23 08:38	11/18/23 13:42	1
Phenol-d5 (Surr)	21		16 - 117	11/17/23 08:38	11/18/23 13:42	1
p-Terphenyl-d14	104		20 - 141	11/17/23 08:38	11/18/23 13:42	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.173	U	0.660	0.173	ug/L		11/16/23 11:57	11/20/23 21:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	79		37 - 133				11/16/23 11:57	11/20/23 21:47	1

Client Sample ID: MW-70

Lab Sample ID: 860-61601-2

Date Collected: 11/13/23 12:43

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 23:16	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 23:16	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 23:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 23:16	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 23:16	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 23:16	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 23:16	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 23:16	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 23:16	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 23:16	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 23:16	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 23:16	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 23:16	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 23:16	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 23:16	1
2,2,4-Trimethylpentane	6.53		5.00	0.500	ug/L			11/16/23 23:16	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 23:16	1
2-Hexanone (MBK)	9.78	J	50.0	7.45	ug/L			11/16/23 23:16	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/16/23 23:16	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 23:16	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 23:16	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 23:16	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 23:16	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 23:16	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 23:16	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-70

Lab Sample ID: 860-61601-2

Date Collected: 11/13/23 12:43

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 23:16	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 23:16	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 23:16	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 23:16	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 23:16	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 23:16	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 23:16	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 23:16	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 23:16	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 23:16	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 23:16	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 23:16	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 23:16	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 23:16	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 23:16	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 23:16	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 23:16	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 23:16	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 23:16	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 23:16	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 23:16	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 23:16	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 23:16	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/16/23 23:16	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 23:16	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 23:16	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 23:16	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 23:16	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 23:16	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 23:16	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 23:16	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 23:16	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 23:16	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 23:16	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 23:16	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 23:16	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 23:16	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 23:16	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 23:16	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 23:16	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 23:16	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 23:16	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 23:16	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		11/16/23 23:16	1
4-Bromofluorobenzene (Surr)	100		74 - 124		11/16/23 23:16	1
Dibromofluoromethane (Surr)	102		75 - 131		11/16/23 23:16	1
Toluene-d8 (Surr)	99		80 - 120		11/16/23 23:16	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-70

Lab Sample ID: 860-61601-2

Date Collected: 11/13/23 12:43

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<8.57	U	40.0	8.57	ug/L		11/17/23 08:38	11/18/23 17:11	20
1,2,4,5-Tetrachlorobenzene	<13.4	U	40.0	13.4	ug/L		11/17/23 08:38	11/18/23 17:11	20
1,2,4-Trichlorobenzene	<13.6	U	40.0	13.6	ug/L		11/17/23 08:38	11/18/23 17:11	20
1,2-Dichlorobenzene	<5.93	U	40.0	5.93	ug/L		11/17/23 08:38	11/18/23 17:11	20
1,3,5-Trinitrobenzene	<28.6	U	40.0	28.6	ug/L		11/17/23 08:38	11/18/23 17:11	20
1,3-Dichlorobenzene	<7.01	U	40.0	7.01	ug/L		11/17/23 08:38	11/18/23 17:11	20
1,3-Dinitrobenzene	<2.24	U	40.0	2.24	ug/L		11/17/23 08:38	11/18/23 17:11	20
1,4-Dichlorobenzene	<8.57	U	40.0	8.57	ug/L		11/17/23 08:38	11/18/23 17:11	20
1,4-Naphthoquinone	<37.0	U	160	37.0	ug/L		11/17/23 08:38	11/18/23 17:11	20
1-Naphthylamine	<4.63	U	40.0	4.63	ug/L		11/17/23 08:38	11/18/23 17:11	20
2,2'-oxybis[1-chloropropane]	<2.78	U	40.0	2.78	ug/L		11/17/23 08:38	11/18/23 17:11	20
2,3,4,6-Tetrachlorophenol	<3.49	U	40.0	3.49	ug/L		11/17/23 08:38	11/18/23 17:11	20
2,4,5-Trichlorophenol	<2.17	U	40.0	2.17	ug/L		11/17/23 08:38	11/18/23 17:11	20
2,4,6-Trichlorophenol	<2.70	U	40.0	2.70	ug/L		11/17/23 08:38	11/18/23 17:11	20
2,4-Dichlorophenol	<2.29	U	40.0	2.29	ug/L		11/17/23 08:38	11/18/23 17:11	20
2,4-Dimethylphenol	<2.95	U	40.0	2.95	ug/L		11/17/23 08:38	11/18/23 17:11	20
2,4-Dinitrophenol	<29.1	U	160	29.1	ug/L		11/17/23 08:38	11/18/23 17:11	20
2,4-Dinitrotoluene	<2.54	U	40.0	2.54	ug/L		11/17/23 08:38	11/18/23 17:11	20
2,6-Dichlorophenol	<2.51	U	40.0	2.51	ug/L		11/17/23 08:38	11/18/23 17:11	20
2,6-Dinitrotoluene	<3.97	U	40.0	3.97	ug/L		11/17/23 08:38	11/18/23 17:11	20
2-Acetylaminofluorene	<30.4	U	160	30.4	ug/L		11/17/23 08:38	11/18/23 17:11	20
2-Chloronaphthalene	<21.8	U	160	21.8	ug/L		11/17/23 08:38	11/18/23 17:11	20
2-Chlorophenol	<0.270	U	40.0	0.270	ug/L		11/17/23 08:38	11/18/23 17:11	20
2-Methylnaphthalene	<9.59	U	40.0	9.59	ug/L		11/17/23 08:38	11/18/23 17:11	20
2-Methylphenol	<3.19	U	40.0	3.19	ug/L		11/17/23 08:38	11/18/23 17:11	20
2-Naphthylamine	<11.9	U	160	11.9	ug/L		11/17/23 08:38	11/18/23 17:11	20
2-Nitroaniline	<3.26	U	80.0	3.26	ug/L		11/17/23 08:38	11/18/23 17:11	20
2-Nitrophenol	<2.70	U	40.0	2.70	ug/L		11/17/23 08:38	11/18/23 17:11	20
2-Picoline	<4.30	U	40.0	4.30	ug/L		11/17/23 08:38	11/18/23 17:11	20
2-Toluidine	<18.7	U	160	18.7	ug/L		11/17/23 08:38	11/18/23 17:11	20
3 & 4 Methylphenol	<3.26	U	40.0	3.26	ug/L		11/17/23 08:38	11/18/23 17:11	20
3,3'-Dichlorobenzidine	<4.40	U	80.0	4.40	ug/L		11/17/23 08:38	11/18/23 17:11	20
3,3'-Dimethylbenzidine	<8.87	U *	160	8.87	ug/L		11/17/23 08:38	11/18/23 17:11	20
3-Methylcholanthrene	<3.17	U	160	3.17	ug/L		11/17/23 08:38	11/18/23 17:11	20
3-Nitroaniline	<6.88	U	40.0	6.88	ug/L		11/17/23 08:38	11/18/23 17:11	20
4,6-Dinitro-2-methylphenol	<14.7	U	160	14.7	ug/L		11/17/23 08:38	11/18/23 17:11	20
4-Aminobiphenyl	<5.94	U	160	5.94	ug/L		11/17/23 08:38	11/18/23 17:11	20
4-Bromophenyl phenyl ether	<3.34	U	40.0	3.34	ug/L		11/17/23 08:38	11/18/23 17:11	20
4-Chloro-3-methylphenol	<3.14	U	40.0	3.14	ug/L		11/17/23 08:38	11/18/23 17:11	20
4-Chloroaniline	<2.98	U	80.0	2.98	ug/L		11/17/23 08:38	11/18/23 17:11	20
4-Chlorophenyl phenyl ether	<4.65	U	40.0	4.65	ug/L		11/17/23 08:38	11/18/23 17:11	20
4-Nitroaniline	<4.94	U	80.0	4.94	ug/L		11/17/23 08:38	11/18/23 17:11	20
4-Nitroquinoline-1-oxide	<43.0	U	80.0	43.0	ug/L		11/17/23 08:38	11/18/23 17:11	20
7,12-Dimethylbenz(a)anthracene	<1.22	U	160	1.22	ug/L		11/17/23 08:38	11/18/23 17:11	20
Acenaphthene	<4.16	U	40.0	4.16	ug/L		11/17/23 08:38	11/18/23 17:11	20
Acenaphthylene	<4.29	U	40.0	4.29	ug/L		11/17/23 08:38	11/18/23 17:11	20
Acetophenone	<4.49	U	80.0	4.49	ug/L		11/17/23 08:38	11/18/23 17:11	20
alpha,alpha-Dimethyl phenethylamine	<80.0	U	80.0	80.0	ug/L		11/17/23 08:38	11/18/23 17:11	20
Aniline	<6.28	U	80.0	6.28	ug/L		11/17/23 08:38	11/18/23 17:11	20

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-70

Lab Sample ID: 860-61601-2

Date Collected: 11/13/23 12:43

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<3.07	U	40.0	3.07	ug/L		11/17/23 08:38	11/18/23 17:11	20
Aramite, Total	<13.4	U	80.0	13.4	ug/L		11/17/23 08:38	11/18/23 17:11	20
Benzo[a]anthracene	<3.00	U	40.0	3.00	ug/L		11/17/23 08:38	11/18/23 17:11	20
Benzo[a]pyrene	<2.95	U	40.0	2.95	ug/L		11/17/23 08:38	11/18/23 17:11	20
Benzo[b]fluoranthene	<4.19	U	40.0	4.19	ug/L		11/17/23 08:38	11/18/23 17:11	20
Benzo[g,h,i]perylene	<2.86	U	40.0	2.86	ug/L		11/17/23 08:38	11/18/23 17:11	20
Benzo[k]fluoranthene	<3.32	U	40.0	3.32	ug/L		11/17/23 08:38	11/18/23 17:11	20
Benzyl alcohol	<90.0	U	160	90.0	ug/L		11/17/23 08:38	11/18/23 17:11	20
Bis(2-chloroethoxy)methane	<3.40	U	40.0	3.40	ug/L		11/17/23 08:38	11/18/23 17:11	20
Bis(2-chloroethyl)ether	<5.56	U	40.0	5.56	ug/L		11/17/23 08:38	11/18/23 17:11	20
Bis(2-ethylhexyl) phthalate	<4.49	U	40.0	4.49	ug/L		11/17/23 08:38	11/18/23 17:11	20
Butyl benzyl phthalate	<3.00	U	40.0	3.00	ug/L		11/17/23 08:38	11/18/23 17:11	20
Chrysene	<3.19	U	40.0	3.19	ug/L		11/17/23 08:38	11/18/23 17:11	20
Diallate	<12.0	U	160	12.0	ug/L		11/17/23 08:38	11/18/23 17:11	20
Dibenz(a,h)anthracene	<2.95	U	40.0	2.95	ug/L		11/17/23 08:38	11/18/23 17:11	20
Dibenzofuran	<6.71	U	40.0	6.71	ug/L		11/17/23 08:38	11/18/23 17:11	20
Diethyl phthalate	<2.36	U	40.0	2.36	ug/L		11/17/23 08:38	11/18/23 17:11	20
Dimethoate	<34.0	U	160	34.0	ug/L		11/17/23 08:38	11/18/23 17:11	20
Dimethyl phthalate	<2.85	U	40.0	2.85	ug/L		11/17/23 08:38	11/18/23 17:11	20
Di-n-butyl phthalate	19.0	J	40.0	16.0	ug/L		11/17/23 08:38	11/18/23 17:11	20
Di-n-octyl phthalate	<3.39	U	40.0	3.39	ug/L		11/17/23 08:38	11/18/23 17:11	20
Dinoseb	<40.0	U	80.0	40.0	ug/L		11/17/23 08:38	11/18/23 17:11	20
Diphenyl ether	<7.27	U	160	7.27	ug/L		11/17/23 08:38	11/18/23 17:11	20
Disulfoton	<27.8	U	160	27.8	ug/L		11/17/23 08:38	11/18/23 17:11	20
Ethyl methanesulfonate	<27.6	U	80.0	27.6	ug/L		11/17/23 08:38	11/18/23 17:11	20
Ethyl Parathion	<28.3	U	80.0	28.3	ug/L		11/17/23 08:38	11/18/23 17:11	20
Famphur	<160	U	160	160	ug/L		11/17/23 08:38	11/18/23 17:11	20
Fluoranthene	<2.95	U	40.0	2.95	ug/L		11/17/23 08:38	11/18/23 17:11	20
Fluorene	<4.11	U	40.0	4.11	ug/L		11/17/23 08:38	11/18/23 17:11	20
Hexachlorobenzene	<2.51	U	40.0	2.51	ug/L		11/17/23 08:38	11/18/23 17:11	20
Hexachlorobutadiene	<5.04	U	40.0	5.04	ug/L		11/17/23 08:38	11/18/23 17:11	20
Hexachlorocyclopentadiene	<8.62	U	40.0	8.62	ug/L		11/17/23 08:38	11/18/23 17:11	20
Hexachloroethane	<2.80	U	40.0	2.80	ug/L		11/17/23 08:38	11/18/23 17:11	20
Hexachloropropene	<4.26	U	80.0	4.26	ug/L		11/17/23 08:38	11/18/23 17:11	20
Indeno[1,2,3-cd]pyrene	<17.0	U	40.0	17.0	ug/L		11/17/23 08:38	11/18/23 17:11	20
Isophorone	<3.36	U	40.0	3.36	ug/L		11/17/23 08:38	11/18/23 17:11	20
Isosafrole	<49.3	U	120	49.3	ug/L		11/17/23 08:38	11/18/23 17:11	20
Methapyrilene	<3.62	U	40.0	3.62	ug/L		11/17/23 08:38	11/18/23 17:11	20
Methyl methanesulfonate	<1.22	U	40.0	1.22	ug/L		11/17/23 08:38	11/18/23 17:11	20
Methyl parathion	<32.9	U	80.0	32.9	ug/L		11/17/23 08:38	11/18/23 17:11	20
Naphthalene	<8.46	U	40.0	8.46	ug/L		11/17/23 08:38	11/18/23 17:11	20
Nitrobenzene	<18.7	U	40.0	18.7	ug/L		11/17/23 08:38	11/18/23 17:11	20
N-Nitro-o-toluidine	<26.2	U	160	26.2	ug/L		11/17/23 08:38	11/18/23 17:11	20
N-Nitrosodiethylamine	<30.8	U	80.0	30.8	ug/L		11/17/23 08:38	11/18/23 17:11	20
N-Nitrosodimethylamine	<2.51	U	40.0	2.51	ug/L		11/17/23 08:38	11/18/23 17:11	20
N-Nitrosodi-n-butylamine	<30.8	U	40.0	30.8	ug/L		11/17/23 08:38	11/18/23 17:11	20
N-Nitrosodi-n-propylamine	<3.23	U	40.0	3.23	ug/L		11/17/23 08:38	11/18/23 17:11	20
N-Nitrosodiphenylamine	<3.09	U	40.0	3.09	ug/L		11/17/23 08:38	11/18/23 17:11	20
N-Nitrosomethylethylamine	<3.98	U	40.0	3.98	ug/L		11/17/23 08:38	11/18/23 17:11	20

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-70

Date Collected: 11/13/23 12:43

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-2

Matrix: Water

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosomorpholine	<28.8	U	80.0	28.8	ug/L		11/17/23 08:38	11/18/23 17:11	20
N-Nitrosopiperidine	<28.8	U	80.0	28.8	ug/L		11/17/23 08:38	11/18/23 17:11	20
N-Nitrosopyrrolidine	<27.6	U	80.0	27.6	ug/L		11/17/23 08:38	11/18/23 17:11	20
o,o',o"-Triethylphosphorothioate	<1.16	U	160	1.16	ug/L		11/17/23 08:38	11/18/23 17:11	20
p-Dimethylamino azobenzene	<1.16	U	160	1.16	ug/L		11/17/23 08:38	11/18/23 17:11	20
Pentachlorobenzene	<23.6	U	40.0	23.6	ug/L		11/17/23 08:38	11/18/23 17:11	20
Pentachloronitrobenzene	<25.3	U	40.0	25.3	ug/L		11/17/23 08:38	11/18/23 17:11	20
Pentachlorophenol	<8.82	U	40.0	8.82	ug/L		11/17/23 08:38	11/18/23 17:11	20
Phenacetin	<26.5	U	160	26.5	ug/L		11/17/23 08:38	11/18/23 17:11	20
Phenanthrene	<3.53	U	40.0	3.53	ug/L		11/17/23 08:38	11/18/23 17:11	20
Phenol	<4.04	U	80.0	4.04	ug/L		11/17/23 08:38	11/18/23 17:11	20
Phorate	<28.0	U	160	28.0	ug/L		11/17/23 08:38	11/18/23 17:11	20
p-Phenylene diamine	<200	U *	200	200	ug/L		11/17/23 08:38	11/18/23 17:11	20
Pronamide	<27.7	U	80.0	27.7	ug/L		11/17/23 08:38	11/18/23 17:11	20
Pyrene	<3.19	U	40.0	3.19	ug/L		11/17/23 08:38	11/18/23 17:11	20
Pyridine	<14.5	U	40.0	14.5	ug/L		11/17/23 08:38	11/18/23 17:11	20
Safrole, Total	<3.66	U	80.0	3.66	ug/L		11/17/23 08:38	11/18/23 17:11	20
Sulfotepp	<28.6	U	80.0	28.6	ug/L		11/17/23 08:38	11/18/23 17:11	20
Thionazin	<28.7	U	160	28.7	ug/L		11/17/23 08:38	11/18/23 17:11	20
Aramite Peak 2	<54.9	U	80.0	54.9	ug/L		11/17/23 08:38	11/18/23 17:11	20
Isosafrole Peak 1	<49.3	U	120	49.3	ug/L		11/17/23 08:38	11/18/23 17:11	20
Diallate Peak 2	<12.0	U	160	12.0	ug/L		11/17/23 08:38	11/18/23 17:11	20
Isosafrole Peak 2	<42.3	U	120	42.3	ug/L		11/17/23 08:38	11/18/23 17:11	20
Diallate Peak 1	<13.5	U	160	13.5	ug/L		11/17/23 08:38	11/18/23 17:11	20
Aramite Peak 1	<13.4	U	80.0	13.4	ug/L		11/17/23 08:38	11/18/23 17:11	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	52		31 - 132	11/17/23 08:38	11/18/23 17:11	20
2-Fluorobiphenyl	52		40 - 130	11/17/23 08:38	11/18/23 17:11	20
2-Fluorophenol (Surr)	33		21 - 114	11/17/23 08:38	11/18/23 17:11	20
Nitrobenzene-d5 (Surr)	54		37 - 130	11/17/23 08:38	11/18/23 17:11	20
Phenol-d5 (Surr)	27		16 - 117	11/17/23 08:38	11/18/23 17:11	20
p-Terphenyl-d14	96		20 - 141	11/17/23 08:38	11/18/23 17:11	20

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.172	U	0.656	0.172	ug/L		11/16/23 11:57	11/20/23 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	80		37 - 133	11/16/23 11:57	11/20/23 22:17	1

Client Sample ID: MW-71

Date Collected: 11/13/23 13:35

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 15:17	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 15:17	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 15:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 15:17	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-71

Lab Sample ID: 860-61601-3

Date Collected: 11/13/23 13:35

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 15:17	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 15:17	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 15:17	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 15:17	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 15:17	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 15:17	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 15:17	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 15:17	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 15:17	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 15:17	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 15:17	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 15:17	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 15:17	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 15:17	1
2-Propanol	<5.23	U *+	10.0	5.23	ug/L			11/16/23 15:17	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 15:17	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 15:17	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 15:17	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 15:17	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 15:17	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 15:17	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 15:17	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 15:17	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 15:17	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 15:17	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 15:17	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 15:17	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 15:17	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 15:17	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 15:17	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 15:17	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 15:17	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 15:17	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 15:17	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 15:17	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 15:17	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 15:17	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 15:17	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 15:17	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 15:17	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 15:17	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 15:17	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 15:17	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 15:17	1
Isobutanol	<17.1	U *+	50.0	17.1	ug/L			11/16/23 15:17	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 15:17	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 15:17	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 15:17	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 15:17	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-71

Lab Sample ID: 860-61601-3

Date Collected: 11/13/23 13:35

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 15:17	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 15:17	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 15:17	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 15:17	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 15:17	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 15:17	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 15:17	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 15:17	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 15:17	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 15:17	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 15:17	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 15:17	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 15:17	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 15:17	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 15:17	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/16/23 15:17	1
4-Bromofluorobenzene (Surr)	97		74 - 124		11/16/23 15:17	1
Dibromofluoromethane (Surr)	102		75 - 131		11/16/23 15:17	1
Toluene-d8 (Surr)	100		80 - 120		11/16/23 15:17	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 14:03	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/17/23 08:38	11/18/23 14:03	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/17/23 08:38	11/18/23 14:03	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/17/23 08:38	11/18/23 14:03	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/17/23 08:38	11/18/23 14:03	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/17/23 08:38	11/18/23 14:03	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/17/23 08:38	11/18/23 14:03	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 14:03	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/17/23 08:38	11/18/23 14:03	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 14:03	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/17/23 08:38	11/18/23 14:03	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/17/23 08:38	11/18/23 14:03	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/17/23 08:38	11/18/23 14:03	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 14:03	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/17/23 08:38	11/18/23 14:03	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 14:03	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/17/23 08:38	11/18/23 14:03	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/17/23 08:38	11/18/23 14:03	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 14:03	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 14:03	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/17/23 08:38	11/18/23 14:03	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/17/23 08:38	11/18/23 14:03	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/17/23 08:38	11/18/23 14:03	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/17/23 08:38	11/18/23 14:03	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 14:03	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-71

Lab Sample ID: 860-61601-3

Date Collected: 11/13/23 13:35

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/17/23 08:38	11/18/23 14:03	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/17/23 08:38	11/18/23 14:03	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 14:03	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 14:03	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/17/23 08:38	11/18/23 14:03	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/17/23 08:38	11/18/23 14:03	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/17/23 08:38	11/18/23 14:03	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/17/23 08:38	11/18/23 14:03	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/17/23 08:38	11/18/23 14:03	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/17/23 08:38	11/18/23 14:03	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/17/23 08:38	11/18/23 14:03	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/17/23 08:38	11/18/23 14:03	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/17/23 08:38	11/18/23 14:03	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/17/23 08:38	11/18/23 14:03	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/17/23 08:38	11/18/23 14:03	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 14:03	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/17/23 08:38	11/18/23 14:03	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/17/23 08:38	11/18/23 14:03	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/17/23 08:38	11/18/23 14:03	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/17/23 08:38	11/18/23 14:03	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 14:03	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/17/23 08:38	11/18/23 14:03	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/17/23 08:38	11/18/23 14:03	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/17/23 08:38	11/18/23 14:03	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/17/23 08:38	11/18/23 14:03	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 14:03	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 14:03	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 14:03	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/17/23 08:38	11/18/23 14:03	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 14:03	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/17/23 08:38	11/18/23 14:03	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/17/23 08:38	11/18/23 14:03	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/17/23 08:38	11/18/23 14:03	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/17/23 08:38	11/18/23 14:03	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/17/23 08:38	11/18/23 14:03	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 14:03	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 14:03	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 14:03	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 14:03	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/17/23 08:38	11/18/23 14:03	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/17/23 08:38	11/18/23 14:03	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/17/23 08:38	11/18/23 14:03	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 14:03	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/17/23 08:38	11/18/23 14:03	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/17/23 08:38	11/18/23 14:03	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/17/23 08:38	11/18/23 14:03	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/17/23 08:38	11/18/23 14:03	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/17/23 08:38	11/18/23 14:03	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 14:03	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-71

Lab Sample ID: 860-61601-3

Date Collected: 11/13/23 13:35

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/17/23 08:38	11/18/23 14:03	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/17/23 08:38	11/18/23 14:03	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 14:03	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/17/23 08:38	11/18/23 14:03	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 14:03	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/17/23 08:38	11/18/23 14:03	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/17/23 08:38	11/18/23 14:03	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/17/23 08:38	11/18/23 14:03	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/17/23 08:38	11/18/23 14:03	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/17/23 08:38	11/18/23 14:03	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/17/23 08:38	11/18/23 14:03	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 14:03	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/17/23 08:38	11/18/23 14:03	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/17/23 08:38	11/18/23 14:03	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/17/23 08:38	11/18/23 14:03	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/17/23 08:38	11/18/23 14:03	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/17/23 08:38	11/18/23 14:03	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/17/23 08:38	11/18/23 14:03	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/17/23 08:38	11/18/23 14:03	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 14:03	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/17/23 08:38	11/18/23 14:03	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/17/23 08:38	11/18/23 14:03	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/17/23 08:38	11/18/23 14:03	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 14:03	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 14:03	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 14:03	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 14:03	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 14:03	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 14:03	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/17/23 08:38	11/18/23 14:03	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/17/23 08:38	11/18/23 14:03	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/17/23 08:38	11/18/23 14:03	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/17/23 08:38	11/18/23 14:03	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/17/23 08:38	11/18/23 14:03	1
Phenol	0.995	J	4.00	0.202	ug/L		11/17/23 08:38	11/18/23 14:03	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/17/23 08:38	11/18/23 14:03	1
p-Phenylene diamine	<10.0	U *-	10.0	10.0	ug/L		11/17/23 08:38	11/18/23 14:03	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/17/23 08:38	11/18/23 14:03	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 14:03	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/17/23 08:38	11/18/23 14:03	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/17/23 08:38	11/18/23 14:03	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/17/23 08:38	11/18/23 14:03	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/17/23 08:38	11/18/23 14:03	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/17/23 08:38	11/18/23 14:03	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 14:03	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 14:03	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/17/23 08:38	11/18/23 14:03	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/17/23 08:38	11/18/23 14:03	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 14:03	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-71

Date Collected: 11/13/23 13:35

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-3

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	59		31 - 132	11/17/23 08:38	11/18/23 14:03	1
2-Fluorobiphenyl	61		40 - 130	11/17/23 08:38	11/18/23 14:03	1
2-Fluorophenol (Surr)	31		21 - 114	11/17/23 08:38	11/18/23 14:03	1
Nitrobenzene-d5 (Surr)	45		37 - 130	11/17/23 08:38	11/18/23 14:03	1
Phenol-d5 (Surr)	18		16 - 117	11/17/23 08:38	11/18/23 14:03	1
p-Terphenyl-d14	91		20 - 141	11/17/23 08:38	11/18/23 14:03	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.174	U	0.662	0.174	ug/L		11/16/23 11:57	11/20/23 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	91		37 - 133	11/16/23 11:57	11/20/23 22:47	1

Client Sample ID: MW-72

Date Collected: 11/13/23 13:40

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 13:55	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 13:55	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 13:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 13:55	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 13:55	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 13:55	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 13:55	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 13:55	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 13:55	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 13:55	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 13:55	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 13:55	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 13:55	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 13:55	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 13:55	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 13:55	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 13:55	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 13:55	1
2-Propanol	<5.23	U *+	10.0	5.23	ug/L			11/16/23 13:55	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 13:55	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 13:55	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 13:55	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 13:55	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 13:55	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 13:55	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 13:55	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 13:55	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 13:55	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 13:55	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 13:55	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 13:55	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-72

Lab Sample ID: 860-61601-4

Date Collected: 11/13/23 13:40

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 13:55	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 13:55	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 13:55	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 13:55	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 13:55	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 13:55	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 13:55	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 13:55	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 13:55	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 13:55	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 13:55	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 13:55	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 13:55	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 13:55	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 13:55	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 13:55	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 13:55	1
Isobutanol	<17.1	U *+	50.0	17.1	ug/L			11/16/23 13:55	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 13:55	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 13:55	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 13:55	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 13:55	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 13:55	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 13:55	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 13:55	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 13:55	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 13:55	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 13:55	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 13:55	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 13:55	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 13:55	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 13:55	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 13:55	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 13:55	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 13:55	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 13:55	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 13:55	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		11/16/23 13:55	1
4-Bromofluorobenzene (Surr)	95		74 - 124		11/16/23 13:55	1
Dibromofluoromethane (Surr)	103		75 - 131		11/16/23 13:55	1
Toluene-d8 (Surr)	98		80 - 120		11/16/23 13:55	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 14:24	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/17/23 08:38	11/18/23 14:24	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/17/23 08:38	11/18/23 14:24	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-72

Lab Sample ID: 860-61601-4

Date Collected: 11/13/23 13:40

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/17/23 08:38	11/18/23 14:24	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/17/23 08:38	11/18/23 14:24	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/17/23 08:38	11/18/23 14:24	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/17/23 08:38	11/18/23 14:24	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 14:24	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/17/23 08:38	11/18/23 14:24	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 14:24	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/17/23 08:38	11/18/23 14:24	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/17/23 08:38	11/18/23 14:24	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/17/23 08:38	11/18/23 14:24	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 14:24	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/17/23 08:38	11/18/23 14:24	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 14:24	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/17/23 08:38	11/18/23 14:24	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/17/23 08:38	11/18/23 14:24	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 14:24	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 14:24	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/17/23 08:38	11/18/23 14:24	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/17/23 08:38	11/18/23 14:24	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/17/23 08:38	11/18/23 14:24	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/17/23 08:38	11/18/23 14:24	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 14:24	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/17/23 08:38	11/18/23 14:24	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/17/23 08:38	11/18/23 14:24	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 14:24	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 14:24	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/17/23 08:38	11/18/23 14:24	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/17/23 08:38	11/18/23 14:24	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/17/23 08:38	11/18/23 14:24	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/17/23 08:38	11/18/23 14:24	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/17/23 08:38	11/18/23 14:24	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/17/23 08:38	11/18/23 14:24	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/17/23 08:38	11/18/23 14:24	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/17/23 08:38	11/18/23 14:24	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/17/23 08:38	11/18/23 14:24	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/17/23 08:38	11/18/23 14:24	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/17/23 08:38	11/18/23 14:24	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 14:24	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/17/23 08:38	11/18/23 14:24	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/17/23 08:38	11/18/23 14:24	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/17/23 08:38	11/18/23 14:24	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/17/23 08:38	11/18/23 14:24	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 14:24	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/17/23 08:38	11/18/23 14:24	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/17/23 08:38	11/18/23 14:24	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/17/23 08:38	11/18/23 14:24	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/17/23 08:38	11/18/23 14:24	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 14:24	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 14:24	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-72

Lab Sample ID: 860-61601-4

Date Collected: 11/13/23 13:40

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 14:24	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/17/23 08:38	11/18/23 14:24	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 14:24	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/17/23 08:38	11/18/23 14:24	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/17/23 08:38	11/18/23 14:24	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/17/23 08:38	11/18/23 14:24	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/17/23 08:38	11/18/23 14:24	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/17/23 08:38	11/18/23 14:24	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 14:24	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 14:24	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 14:24	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 14:24	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/17/23 08:38	11/18/23 14:24	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/17/23 08:38	11/18/23 14:24	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/17/23 08:38	11/18/23 14:24	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 14:24	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/17/23 08:38	11/18/23 14:24	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/17/23 08:38	11/18/23 14:24	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/17/23 08:38	11/18/23 14:24	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/17/23 08:38	11/18/23 14:24	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/17/23 08:38	11/18/23 14:24	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 14:24	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/17/23 08:38	11/18/23 14:24	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/17/23 08:38	11/18/23 14:24	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 14:24	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/17/23 08:38	11/18/23 14:24	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 14:24	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/17/23 08:38	11/18/23 14:24	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/17/23 08:38	11/18/23 14:24	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/17/23 08:38	11/18/23 14:24	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/17/23 08:38	11/18/23 14:24	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/17/23 08:38	11/18/23 14:24	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/17/23 08:38	11/18/23 14:24	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 14:24	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/17/23 08:38	11/18/23 14:24	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/17/23 08:38	11/18/23 14:24	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/17/23 08:38	11/18/23 14:24	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/17/23 08:38	11/18/23 14:24	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/17/23 08:38	11/18/23 14:24	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/17/23 08:38	11/18/23 14:24	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/17/23 08:38	11/18/23 14:24	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 14:24	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/17/23 08:38	11/18/23 14:24	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/17/23 08:38	11/18/23 14:24	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/17/23 08:38	11/18/23 14:24	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 14:24	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 14:24	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 14:24	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 14:24	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-72

Lab Sample ID: 860-61601-4

Date Collected: 11/13/23 13:40

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 14:24	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 14:24	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/17/23 08:38	11/18/23 14:24	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/17/23 08:38	11/18/23 14:24	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/17/23 08:38	11/18/23 14:24	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/17/23 08:38	11/18/23 14:24	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/17/23 08:38	11/18/23 14:24	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/17/23 08:38	11/18/23 14:24	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/17/23 08:38	11/18/23 14:24	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/17/23 08:38	11/18/23 14:24	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/17/23 08:38	11/18/23 14:24	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 14:24	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/17/23 08:38	11/18/23 14:24	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/17/23 08:38	11/18/23 14:24	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/17/23 08:38	11/18/23 14:24	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/17/23 08:38	11/18/23 14:24	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/17/23 08:38	11/18/23 14:24	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 14:24	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 14:24	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/17/23 08:38	11/18/23 14:24	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/17/23 08:38	11/18/23 14:24	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	54		31 - 132	11/17/23 08:38	11/18/23 14:24	1
2-Fluorobiphenyl	59		40 - 130	11/17/23 08:38	11/18/23 14:24	1
2-Fluorophenol (Surr)	42		21 - 114	11/17/23 08:38	11/18/23 14:24	1
Nitrobenzene-d5 (Surr)	47		37 - 130	11/17/23 08:38	11/18/23 14:24	1
Phenol-d5 (Surr)	30		16 - 117	11/17/23 08:38	11/18/23 14:24	1
p-Terphenyl-d14	88		20 - 141	11/17/23 08:38	11/18/23 14:24	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.175	U	0.667	0.175	ug/L		11/16/23 11:57	11/20/23 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	76		37 - 133	11/16/23 11:57	11/20/23 23:16	1

Client Sample ID: MW-68

Lab Sample ID: 860-61601-5

Date Collected: 11/13/23 14:32

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<3.22	U	5.00	3.22	ug/L			11/17/23 15:22	5
1,1,1-Trichloroethane	<2.93	U	25.0	2.93	ug/L			11/17/23 15:22	5
1,1,2,2-Tetrachloroethane	<2.35	U	5.00	2.35	ug/L			11/17/23 15:22	5
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.55	U	50.0	5.55	ug/L			11/17/23 15:22	5
1,1,2-Trichloroethane	<2.06	U	5.00	2.06	ug/L			11/17/23 15:22	5
1,1-Dichloroethane	<3.18	U	5.00	3.18	ug/L			11/17/23 15:22	5
1,1-Dichloroethene	<3.69	U	5.00	3.69	ug/L			11/17/23 15:22	5

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-68

Lab Sample ID: 860-61601-5

Date Collected: 11/13/23 14:32

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<2.35	U	5.00	2.35	ug/L			11/17/23 15:22	5
1,2,4-Trimethylbenzene	45.4		5.00	2.09	ug/L			11/17/23 15:22	5
1,2-Dibromo-3-Chloropropane	<3.36	U	25.0	3.36	ug/L			11/17/23 15:22	5
1,2-Dibromoethane	<5.00	U	25.0	5.00	ug/L			11/17/23 15:22	5
1,2-Dichloroethane	<1.86	U	5.00	1.86	ug/L			11/17/23 15:22	5
1,2-Dichloropropane	<2.78	U	25.0	2.78	ug/L			11/17/23 15:22	5
1,3,5-Trimethylbenzene	13.1		5.00	2.06	ug/L			11/17/23 15:22	5
1,3-Butadiene	<2.84	U	5.00	2.84	ug/L			11/17/23 15:22	5
2,2,4-Trimethylpentane	<2.50	U	25.0	2.50	ug/L			11/17/23 15:22	5
2-Butanone (MEK)	<41.4	U	250	41.4	ug/L			11/17/23 15:22	5
2-Hexanone (MBK)	<37.2	U	250	37.2	ug/L			11/17/23 15:22	5
2-Propanol	<26.1	U *+	50.0	26.1	ug/L			11/17/23 15:22	5
3-Chloropropene (Allyl Chloride)	<2.99	U	25.0	2.99	ug/L			11/17/23 15:22	5
4-Methyl-2-pentanone	<37.5	U	250	37.5	ug/L			11/17/23 15:22	5
Acetone	<15.3	U	500	15.3	ug/L			11/17/23 15:22	5
Acetonitrile	<73.0	U	500	73.0	ug/L			11/17/23 15:22	5
Acrolein	<55.6	U	250	55.6	ug/L			11/17/23 15:22	5
Acrylonitrile	<71.6	U	250	71.6	ug/L			11/17/23 15:22	5
Benzene	551		5.00	2.30	ug/L			11/17/23 15:22	5
Bromodichloromethane	<2.76	U	5.00	2.76	ug/L			11/17/23 15:22	5
Bromoform	<3.17	U	25.0	3.17	ug/L			11/17/23 15:22	5
Bromomethane	<7.10	U	25.0	7.10	ug/L			11/17/23 15:22	5
Carbon disulfide	<8.25	U	25.0	8.25	ug/L			11/17/23 15:22	5
Carbon tetrachloride	<4.48	U	25.0	4.48	ug/L			11/17/23 15:22	5
Chlorobenzene	<2.28	U	5.00	2.28	ug/L			11/17/23 15:22	5
Chlorodibromomethane	<2.74	U	25.0	2.74	ug/L			11/17/23 15:22	5
Chloroethane	<9.92	U	50.0	9.92	ug/L			11/17/23 15:22	5
Chloroform	<2.32	U	5.00	2.32	ug/L			11/17/23 15:22	5
Chloromethane	<10.2	U	50.0	10.2	ug/L			11/17/23 15:22	5
Chloroprene	<2.99	U	25.0	2.99	ug/L			11/17/23 15:22	5
cis-1,2-Dichloroethene	<2.29	U	5.00	2.29	ug/L			11/17/23 15:22	5
cis-1,3-Dichloropropene	<5.34	U	25.0	5.34	ug/L			11/17/23 15:22	5
Cumene (isopropylbenzene)	15.4		5.00	2.96	ug/L			11/17/23 15:22	5
Cyclohexane	162		25.0	6.43	ug/L			11/17/23 15:22	5
Dibromomethane	<1.79	U	5.00	1.79	ug/L			11/17/23 15:22	5
Dichlorodifluoromethane	<3.93	U	5.00	3.93	ug/L			11/17/23 15:22	5
Ethyl methacrylate	<5.59	U	25.0	5.59	ug/L			11/17/23 15:22	5
Ethylbenzene	214		5.00	1.93	ug/L			11/17/23 15:22	5
Hexane	3.63	J	25.0	2.59	ug/L			11/17/23 15:22	5
Iodomethane	<32.6	U	100	32.6	ug/L			11/17/23 15:22	5
Isobutanol	<85.5	U	250	85.5	ug/L			11/17/23 15:22	5
Methacrylonitrile	<13.6	U	50.0	13.6	ug/L			11/17/23 15:22	5
Methyl methacrylate	<11.3	U	50.0	11.3	ug/L			11/17/23 15:22	5
Methyl tert-butyl ether	<6.96	U	25.0	6.96	ug/L			11/17/23 15:22	5
Methylene Chloride	<8.63	U	25.0	8.63	ug/L			11/17/23 15:22	5
Propionitrile	<16.7	U	50.0	16.7	ug/L			11/17/23 15:22	5
Propylbenzene	23.6		5.00	2.15	ug/L			11/17/23 15:22	5
Styrene	<3.10	U	5.00	3.10	ug/L			11/17/23 15:22	5
Tetrachloroethene	<3.28	U	5.00	3.28	ug/L			11/17/23 15:22	5

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-68

Lab Sample ID: 860-61601-5

Date Collected: 11/13/23 14:32

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<9.17	U	50.0	9.17	ug/L			11/17/23 15:22	5
Toluene	15.9		5.00	2.38	ug/L			11/17/23 15:22	5
trans-1,2-Dichloroethene	<1.84	U	5.00	1.84	ug/L			11/17/23 15:22	5
trans-1,3-Dichloropropene	<6.34	U	25.0	6.34	ug/L			11/17/23 15:22	5
trans-1,4-Dichloro-2-butene	<6.75	U	50.0	6.75	ug/L			11/17/23 15:22	5
Trichloroethene	<7.50	U	25.0	7.50	ug/L			11/17/23 15:22	5
Trichlorofluoromethane	<2.80	U	5.00	2.80	ug/L			11/17/23 15:22	5
Vinyl acetate	<10.7	U	100	10.7	ug/L			11/17/23 15:22	5
Vinyl chloride	<2.14	U	10.0	2.14	ug/L			11/17/23 15:22	5
Xylenes, Total	189		50.0	6.20	ug/L			11/17/23 15:22	5
m,p-Xylenes	0.182		0.0500	0.00620	mg/L			11/17/23 15:22	5
o-Xylene	0.00661		0.00500	0.00251	mg/L			11/17/23 15:22	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		11/17/23 15:22	5
4-Bromofluorobenzene (Surr)	95		74 - 124		11/17/23 15:22	5
Dibromofluoromethane (Surr)	105		75 - 131		11/17/23 15:22	5
Toluene-d8 (Surr)	98		80 - 120		11/17/23 15:22	5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlorotoluene	<11.3	U	25.0	11.3	ug/L			11/18/23 16:16	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		63 - 144		11/18/23 16:16	5
4-Bromofluorobenzene (Surr)	112		74 - 124		11/18/23 16:16	5
Dibromofluoromethane (Surr)	106		75 - 131		11/18/23 16:16	5
Toluene-d8 (Surr)	102		80 - 120		11/18/23 16:16	5

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<8.57	U	40.0	8.57	ug/L		11/17/23 08:38	11/18/23 17:32	20
1,2,4,5-Tetrachlorobenzene	<13.4	U	40.0	13.4	ug/L		11/17/23 08:38	11/18/23 17:32	20
1,2,4-Trichlorobenzene	<13.6	U	40.0	13.6	ug/L		11/17/23 08:38	11/18/23 17:32	20
1,2-Dichlorobenzene	<5.93	U	40.0	5.93	ug/L		11/17/23 08:38	11/18/23 17:32	20
1,3,5-Trinitrobenzene	<28.6	U	40.0	28.6	ug/L		11/17/23 08:38	11/18/23 17:32	20
1,3-Dichlorobenzene	<7.01	U	40.0	7.01	ug/L		11/17/23 08:38	11/18/23 17:32	20
1,3-Dinitrobenzene	<2.24	U	40.0	2.24	ug/L		11/17/23 08:38	11/18/23 17:32	20
1,4-Dichlorobenzene	<8.57	U	40.0	8.57	ug/L		11/17/23 08:38	11/18/23 17:32	20
1,4-Naphthoquinone	<37.0	U	160	37.0	ug/L		11/17/23 08:38	11/18/23 17:32	20
1-Naphthylamine	<4.63	U	40.0	4.63	ug/L		11/17/23 08:38	11/18/23 17:32	20
2,2'-oxybis[1-chloropropane]	<2.78	U	40.0	2.78	ug/L		11/17/23 08:38	11/18/23 17:32	20
2,3,4,6-Tetrachlorophenol	<3.49	U	40.0	3.49	ug/L		11/17/23 08:38	11/18/23 17:32	20
2,4,5-Trichlorophenol	<2.17	U	40.0	2.17	ug/L		11/17/23 08:38	11/18/23 17:32	20
2,4,6-Trichlorophenol	<2.70	U	40.0	2.70	ug/L		11/17/23 08:38	11/18/23 17:32	20
2,4-Dichlorophenol	<2.29	U	40.0	2.29	ug/L		11/17/23 08:38	11/18/23 17:32	20
2,4-Dimethylphenol	<2.95	U	40.0	2.95	ug/L		11/17/23 08:38	11/18/23 17:32	20
2,4-Dinitrophenol	<29.1	U	160	29.1	ug/L		11/17/23 08:38	11/18/23 17:32	20
2,4-Dinitrotoluene	<2.54	U	40.0	2.54	ug/L		11/17/23 08:38	11/18/23 17:32	20
2,6-Dichlorophenol	<2.51	U	40.0	2.51	ug/L		11/17/23 08:38	11/18/23 17:32	20

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-68

Lab Sample ID: 860-61601-5

Date Collected: 11/13/23 14:32

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	<3.97	U	40.0	3.97	ug/L		11/17/23 08:38	11/18/23 17:32	20
2-Acetylaminofluorene	<30.4	U	160	30.4	ug/L		11/17/23 08:38	11/18/23 17:32	20
2-Chloronaphthalene	<21.8	U	160	21.8	ug/L		11/17/23 08:38	11/18/23 17:32	20
2-Chlorophenol	<0.270	U	40.0	0.270	ug/L		11/17/23 08:38	11/18/23 17:32	20
2-Methylnaphthalene	17.6	J	40.0	9.59	ug/L		11/17/23 08:38	11/18/23 17:32	20
2-Methylphenol	<3.19	U	40.0	3.19	ug/L		11/17/23 08:38	11/18/23 17:32	20
2-Naphthylamine	<11.9	U	160	11.9	ug/L		11/17/23 08:38	11/18/23 17:32	20
2-Nitroaniline	<3.26	U	80.0	3.26	ug/L		11/17/23 08:38	11/18/23 17:32	20
2-Nitrophenol	<2.70	U	40.0	2.70	ug/L		11/17/23 08:38	11/18/23 17:32	20
2-Picoline	<4.30	U	40.0	4.30	ug/L		11/17/23 08:38	11/18/23 17:32	20
2-Toluidine	<18.7	U	160	18.7	ug/L		11/17/23 08:38	11/18/23 17:32	20
3 & 4 Methylphenol	<3.26	U	40.0	3.26	ug/L		11/17/23 08:38	11/18/23 17:32	20
3,3'-Dichlorobenzidine	<4.40	U	80.0	4.40	ug/L		11/17/23 08:38	11/18/23 17:32	20
3,3'-Dimethylbenzidine	<8.87	U *	160	8.87	ug/L		11/17/23 08:38	11/18/23 17:32	20
3-Methylcholanthrene	<3.17	U	160	3.17	ug/L		11/17/23 08:38	11/18/23 17:32	20
3-Nitroaniline	<6.88	U	40.0	6.88	ug/L		11/17/23 08:38	11/18/23 17:32	20
4,6-Dinitro-2-methylphenol	<14.7	U	160	14.7	ug/L		11/17/23 08:38	11/18/23 17:32	20
4-Aminobiphenyl	<5.94	U	160	5.94	ug/L		11/17/23 08:38	11/18/23 17:32	20
4-Bromophenyl phenyl ether	<3.34	U	40.0	3.34	ug/L		11/17/23 08:38	11/18/23 17:32	20
4-Chloro-3-methylphenol	<3.14	U	40.0	3.14	ug/L		11/17/23 08:38	11/18/23 17:32	20
4-Chloroaniline	<2.98	U	80.0	2.98	ug/L		11/17/23 08:38	11/18/23 17:32	20
4-Chlorophenyl phenyl ether	<4.65	U	40.0	4.65	ug/L		11/17/23 08:38	11/18/23 17:32	20
4-Nitroaniline	<4.94	U	80.0	4.94	ug/L		11/17/23 08:38	11/18/23 17:32	20
4-Nitroquinoline-1-oxide	<43.0	U	80.0	43.0	ug/L		11/17/23 08:38	11/18/23 17:32	20
7,12-Dimethylbenz(a)anthracene	<1.22	U	160	1.22	ug/L		11/17/23 08:38	11/18/23 17:32	20
Acenaphthene	<4.16	U	40.0	4.16	ug/L		11/17/23 08:38	11/18/23 17:32	20
Acenaphthylene	<4.29	U	40.0	4.29	ug/L		11/17/23 08:38	11/18/23 17:32	20
Acetophenone	<4.49	U	80.0	4.49	ug/L		11/17/23 08:38	11/18/23 17:32	20
alpha,alpha-Dimethyl phenethylamine	<80.0	U	80.0	80.0	ug/L		11/17/23 08:38	11/18/23 17:32	20
Aniline	<6.28	U	80.0	6.28	ug/L		11/17/23 08:38	11/18/23 17:32	20
Anthracene	<3.07	U	40.0	3.07	ug/L		11/17/23 08:38	11/18/23 17:32	20
Aramite, Total	<13.4	U	80.0	13.4	ug/L		11/17/23 08:38	11/18/23 17:32	20
Benzo[a]anthracene	<3.00	U	40.0	3.00	ug/L		11/17/23 08:38	11/18/23 17:32	20
Benzo[a]pyrene	<2.95	U	40.0	2.95	ug/L		11/17/23 08:38	11/18/23 17:32	20
Benzo[b]fluoranthene	<4.19	U	40.0	4.19	ug/L		11/17/23 08:38	11/18/23 17:32	20
Benzo[g,h,i]perylene	<2.86	U	40.0	2.86	ug/L		11/17/23 08:38	11/18/23 17:32	20
Benzo[k]fluoranthene	<3.32	U	40.0	3.32	ug/L		11/17/23 08:38	11/18/23 17:32	20
Benzyl alcohol	<90.0	U	160	90.0	ug/L		11/17/23 08:38	11/18/23 17:32	20
Bis(2-chloroethoxy)methane	<3.40	U	40.0	3.40	ug/L		11/17/23 08:38	11/18/23 17:32	20
Bis(2-chloroethyl)ether	<5.56	U	40.0	5.56	ug/L		11/17/23 08:38	11/18/23 17:32	20
Bis(2-ethylhexyl) phthalate	<4.49	U	40.0	4.49	ug/L		11/17/23 08:38	11/18/23 17:32	20
Butyl benzyl phthalate	<3.00	U	40.0	3.00	ug/L		11/17/23 08:38	11/18/23 17:32	20
Chrysene	<3.19	U	40.0	3.19	ug/L		11/17/23 08:38	11/18/23 17:32	20
Diallate	<12.0	U	160	12.0	ug/L		11/17/23 08:38	11/18/23 17:32	20
Dibenz(a,h)anthracene	<2.95	U	40.0	2.95	ug/L		11/17/23 08:38	11/18/23 17:32	20
Dibenzofuran	<6.71	U	40.0	6.71	ug/L		11/17/23 08:38	11/18/23 17:32	20
Diethyl phthalate	<2.36	U	40.0	2.36	ug/L		11/17/23 08:38	11/18/23 17:32	20
Dimethoate	<34.0	U	160	34.0	ug/L		11/17/23 08:38	11/18/23 17:32	20
Dimethyl phthalate	<2.85	U	40.0	2.85	ug/L		11/17/23 08:38	11/18/23 17:32	20

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-68

Lab Sample ID: 860-61601-5

Date Collected: 11/13/23 14:32

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<16.0	U	40.0	16.0	ug/L		11/17/23 08:38	11/18/23 17:32	20
Di-n-octyl phthalate	<3.39	U	40.0	3.39	ug/L		11/17/23 08:38	11/18/23 17:32	20
Dinoseb	<40.0	U	80.0	40.0	ug/L		11/17/23 08:38	11/18/23 17:32	20
Diphenyl ether	<7.27	U	160	7.27	ug/L		11/17/23 08:38	11/18/23 17:32	20
Disulfoton	<27.8	U	160	27.8	ug/L		11/17/23 08:38	11/18/23 17:32	20
Ethyl methanesulfonate	<27.6	U	80.0	27.6	ug/L		11/17/23 08:38	11/18/23 17:32	20
Ethyl Parathion	<28.3	U	80.0	28.3	ug/L		11/17/23 08:38	11/18/23 17:32	20
Famphur	<160	U	160	160	ug/L		11/17/23 08:38	11/18/23 17:32	20
Fluoranthene	<2.95	U	40.0	2.95	ug/L		11/17/23 08:38	11/18/23 17:32	20
Fluorene	<4.11	U	40.0	4.11	ug/L		11/17/23 08:38	11/18/23 17:32	20
Hexachlorobenzene	<2.51	U	40.0	2.51	ug/L		11/17/23 08:38	11/18/23 17:32	20
Hexachlorobutadiene	<5.04	U	40.0	5.04	ug/L		11/17/23 08:38	11/18/23 17:32	20
Hexachlorocyclopentadiene	<8.62	U	40.0	8.62	ug/L		11/17/23 08:38	11/18/23 17:32	20
Hexachloroethane	<2.80	U	40.0	2.80	ug/L		11/17/23 08:38	11/18/23 17:32	20
Hexachloropropene	<4.26	U	80.0	4.26	ug/L		11/17/23 08:38	11/18/23 17:32	20
Indeno[1,2,3-cd]pyrene	<17.0	U	40.0	17.0	ug/L		11/17/23 08:38	11/18/23 17:32	20
Isophorone	<3.36	U	40.0	3.36	ug/L		11/17/23 08:38	11/18/23 17:32	20
Isosafrole	<49.3	U	120	49.3	ug/L		11/17/23 08:38	11/18/23 17:32	20
Methapyrilene	<3.62	U	40.0	3.62	ug/L		11/17/23 08:38	11/18/23 17:32	20
Methyl methanesulfonate	<1.22	U	40.0	1.22	ug/L		11/17/23 08:38	11/18/23 17:32	20
Methyl parathion	<32.9	U	80.0	32.9	ug/L		11/17/23 08:38	11/18/23 17:32	20
Naphthalene	108		40.0	8.46	ug/L		11/17/23 08:38	11/18/23 17:32	20
Nitrobenzene	<18.7	U	40.0	18.7	ug/L		11/17/23 08:38	11/18/23 17:32	20
N-Nitro-o-toluidine	<26.2	U	160	26.2	ug/L		11/17/23 08:38	11/18/23 17:32	20
N-Nitrosodiethylamine	<30.8	U	80.0	30.8	ug/L		11/17/23 08:38	11/18/23 17:32	20
N-Nitrosodimethylamine	<2.51	U	40.0	2.51	ug/L		11/17/23 08:38	11/18/23 17:32	20
N-Nitrosodi-n-butylamine	<30.8	U	40.0	30.8	ug/L		11/17/23 08:38	11/18/23 17:32	20
N-Nitrosodi-n-propylamine	<3.23	U	40.0	3.23	ug/L		11/17/23 08:38	11/18/23 17:32	20
N-Nitrosodiphenylamine	<3.09	U	40.0	3.09	ug/L		11/17/23 08:38	11/18/23 17:32	20
N-Nitrosomethylethylamine	<3.98	U	40.0	3.98	ug/L		11/17/23 08:38	11/18/23 17:32	20
N-Nitrosomorpholine	<28.8	U	80.0	28.8	ug/L		11/17/23 08:38	11/18/23 17:32	20
N-Nitrosopiperidine	<28.8	U	80.0	28.8	ug/L		11/17/23 08:38	11/18/23 17:32	20
N-Nitrosopyrrolidine	<27.6	U	80.0	27.6	ug/L		11/17/23 08:38	11/18/23 17:32	20
o,o',o''-Triethylphosphorothioate	<1.16	U	160	1.16	ug/L		11/17/23 08:38	11/18/23 17:32	20
p-Dimethylamino azobenzene	<1.16	U	160	1.16	ug/L		11/17/23 08:38	11/18/23 17:32	20
Pentachlorobenzene	<23.6	U	40.0	23.6	ug/L		11/17/23 08:38	11/18/23 17:32	20
Pentachloronitrobenzene	<25.3	U	40.0	25.3	ug/L		11/17/23 08:38	11/18/23 17:32	20
Pentachlorophenol	<8.82	U	40.0	8.82	ug/L		11/17/23 08:38	11/18/23 17:32	20
Phenacetin	<26.5	U	160	26.5	ug/L		11/17/23 08:38	11/18/23 17:32	20
Phenanthrene	<3.53	U	40.0	3.53	ug/L		11/17/23 08:38	11/18/23 17:32	20
Phenol	<4.04	U	80.0	4.04	ug/L		11/17/23 08:38	11/18/23 17:32	20
Phorate	<28.0	U	160	28.0	ug/L		11/17/23 08:38	11/18/23 17:32	20
p-Phenylene diamine	<200	U *	200	200	ug/L		11/17/23 08:38	11/18/23 17:32	20
Pronamide	<27.7	U	80.0	27.7	ug/L		11/17/23 08:38	11/18/23 17:32	20
Pyrene	<3.19	U	40.0	3.19	ug/L		11/17/23 08:38	11/18/23 17:32	20
Pyridine	<14.5	U	40.0	14.5	ug/L		11/17/23 08:38	11/18/23 17:32	20
Safrole, Total	<3.66	U	80.0	3.66	ug/L		11/17/23 08:38	11/18/23 17:32	20
Sulfotepp	<28.6	U	80.0	28.6	ug/L		11/17/23 08:38	11/18/23 17:32	20
Thionazin	<28.7	U	160	28.7	ug/L		11/17/23 08:38	11/18/23 17:32	20

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-68

Date Collected: 11/13/23 14:32

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-5

Matrix: Water

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aramite Peak 2	<54.9	U	80.0	54.9	ug/L		11/17/23 08:38	11/18/23 17:32	20
Isosafrole Peak 1	<49.3	U	120	49.3	ug/L		11/17/23 08:38	11/18/23 17:32	20
Diallate Peak 2	<12.0	U	160	12.0	ug/L		11/17/23 08:38	11/18/23 17:32	20
Isosafrole Peak 2	<42.3	U	120	42.3	ug/L		11/17/23 08:38	11/18/23 17:32	20
Diallate Peak 1	<13.5	U	160	13.5	ug/L		11/17/23 08:38	11/18/23 17:32	20
Aramite Peak 1	<13.4	U	80.0	13.4	ug/L		11/17/23 08:38	11/18/23 17:32	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	21	S1-	31 - 132	11/17/23 08:38	11/18/23 17:32	20
2-Fluorobiphenyl	62		40 - 130	11/17/23 08:38	11/18/23 17:32	20
2-Fluorophenol (Surr)	37		21 - 114	11/17/23 08:38	11/18/23 17:32	20
Nitrobenzene-d5 (Surr)	69		37 - 130	11/17/23 08:38	11/18/23 17:32	20
Phenol-d5 (Surr)	39		16 - 117	11/17/23 08:38	11/18/23 17:32	20
p-Terphenyl-d14	94		20 - 141	11/17/23 08:38	11/18/23 17:32	20

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.172	U	0.654	0.172	ug/L		11/16/23 11:57	11/20/23 23:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	82		37 - 133				11/16/23 11:57	11/20/23 23:45	1

Client Sample ID: MW-67

Date Collected: 11/13/23 14:38

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-6

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 12:54	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 12:54	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 12:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 12:54	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 12:54	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 12:54	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 12:54	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 12:54	1
1,2,4-Trimethylbenzene	0.440	J	1.00	0.417	ug/L			11/16/23 12:54	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 12:54	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 12:54	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 12:54	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 12:54	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 12:54	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 12:54	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 12:54	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 12:54	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 12:54	1
2-Propanol	<5.23	U *+	10.0	5.23	ug/L			11/16/23 12:54	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 12:54	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 12:54	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 12:54	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 12:54	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-67

Lab Sample ID: 860-61601-6

Date Collected: 11/13/23 14:38

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 12:54	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 12:54	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 12:54	1
Benzene	24.6		1.00	0.460	ug/L			11/16/23 12:54	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 12:54	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 12:54	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 12:54	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 12:54	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 12:54	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 12:54	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 12:54	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 12:54	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 12:54	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 12:54	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 12:54	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 12:54	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 12:54	1
Cumene (isopropylbenzene)	2.93		1.00	0.592	ug/L			11/16/23 12:54	1
Cyclohexane	26.2		5.00	1.29	ug/L			11/16/23 12:54	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 12:54	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 12:54	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 12:54	1
Ethylbenzene	1.19		1.00	0.385	ug/L			11/16/23 12:54	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 12:54	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 12:54	1
Isobutanol	<17.1	U **	50.0	17.1	ug/L			11/16/23 12:54	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 12:54	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 12:54	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 12:54	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 12:54	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 12:54	1
Propylbenzene	3.04		1.00	0.429	ug/L			11/16/23 12:54	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 12:54	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 12:54	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 12:54	1
Toluene	0.512	J	1.00	0.475	ug/L			11/16/23 12:54	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 12:54	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 12:54	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 12:54	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 12:54	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 12:54	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 12:54	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 12:54	1
Xylenes, Total	2.61	J	10.0	1.24	ug/L			11/16/23 12:54	1
m,p-Xylenes	0.00261	J	0.0100	0.00124	mg/L			11/16/23 12:54	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		11/16/23 12:54	1
4-Bromofluorobenzene (Surr)	94		74 - 124		11/16/23 12:54	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-67

Date Collected: 11/13/23 14:38

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-6

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		75 - 131		11/16/23 12:54	1
Toluene-d8 (Surr)	99		80 - 120		11/16/23 12:54	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 14:45	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/17/23 08:38	11/18/23 14:45	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/17/23 08:38	11/18/23 14:45	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/17/23 08:38	11/18/23 14:45	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/17/23 08:38	11/18/23 14:45	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/17/23 08:38	11/18/23 14:45	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/17/23 08:38	11/18/23 14:45	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 14:45	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/17/23 08:38	11/18/23 14:45	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 14:45	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/17/23 08:38	11/18/23 14:45	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/17/23 08:38	11/18/23 14:45	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/17/23 08:38	11/18/23 14:45	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 14:45	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/17/23 08:38	11/18/23 14:45	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 14:45	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/17/23 08:38	11/18/23 14:45	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/17/23 08:38	11/18/23 14:45	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 14:45	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 14:45	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/17/23 08:38	11/18/23 14:45	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/17/23 08:38	11/18/23 14:45	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/17/23 08:38	11/18/23 14:45	1
2-Methylnaphthalene	0.924	J	2.00	0.480	ug/L		11/17/23 08:38	11/18/23 14:45	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 14:45	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/17/23 08:38	11/18/23 14:45	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/17/23 08:38	11/18/23 14:45	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 14:45	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 14:45	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/17/23 08:38	11/18/23 14:45	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/17/23 08:38	11/18/23 14:45	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/17/23 08:38	11/18/23 14:45	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/17/23 08:38	11/18/23 14:45	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/17/23 08:38	11/18/23 14:45	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/17/23 08:38	11/18/23 14:45	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/17/23 08:38	11/18/23 14:45	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/17/23 08:38	11/18/23 14:45	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/17/23 08:38	11/18/23 14:45	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/17/23 08:38	11/18/23 14:45	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/17/23 08:38	11/18/23 14:45	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 14:45	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/17/23 08:38	11/18/23 14:45	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/17/23 08:38	11/18/23 14:45	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/17/23 08:38	11/18/23 14:45	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-67

Lab Sample ID: 860-61601-6

Date Collected: 11/13/23 14:38

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/17/23 08:38	11/18/23 14:45	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 14:45	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/17/23 08:38	11/18/23 14:45	1
alpha, alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/17/23 08:38	11/18/23 14:45	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/17/23 08:38	11/18/23 14:45	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/17/23 08:38	11/18/23 14:45	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 14:45	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 14:45	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 14:45	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/17/23 08:38	11/18/23 14:45	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 14:45	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/17/23 08:38	11/18/23 14:45	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/17/23 08:38	11/18/23 14:45	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/17/23 08:38	11/18/23 14:45	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/17/23 08:38	11/18/23 14:45	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/17/23 08:38	11/18/23 14:45	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 14:45	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 14:45	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 14:45	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 14:45	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/17/23 08:38	11/18/23 14:45	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/17/23 08:38	11/18/23 14:45	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/17/23 08:38	11/18/23 14:45	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 14:45	1
Di-n-butyl phthalate	11.7		2.00	0.800	ug/L		11/17/23 08:38	11/18/23 14:45	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/17/23 08:38	11/18/23 14:45	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/17/23 08:38	11/18/23 14:45	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/17/23 08:38	11/18/23 14:45	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/17/23 08:38	11/18/23 14:45	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 14:45	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/17/23 08:38	11/18/23 14:45	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/17/23 08:38	11/18/23 14:45	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 14:45	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/17/23 08:38	11/18/23 14:45	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 14:45	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/17/23 08:38	11/18/23 14:45	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/17/23 08:38	11/18/23 14:45	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/17/23 08:38	11/18/23 14:45	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/17/23 08:38	11/18/23 14:45	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/17/23 08:38	11/18/23 14:45	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/17/23 08:38	11/18/23 14:45	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 14:45	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/17/23 08:38	11/18/23 14:45	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/17/23 08:38	11/18/23 14:45	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/17/23 08:38	11/18/23 14:45	1
Naphthalene	8.66		2.00	0.423	ug/L		11/17/23 08:38	11/18/23 14:45	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/17/23 08:38	11/18/23 14:45	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/17/23 08:38	11/18/23 14:45	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/17/23 08:38	11/18/23 14:45	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-67

Lab Sample ID: 860-61601-6

Date Collected: 11/13/23 14:38

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 14:45	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/17/23 08:38	11/18/23 14:45	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/17/23 08:38	11/18/23 14:45	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/17/23 08:38	11/18/23 14:45	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 14:45	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 14:45	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 14:45	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 14:45	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 14:45	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 14:45	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/17/23 08:38	11/18/23 14:45	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/17/23 08:38	11/18/23 14:45	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/17/23 08:38	11/18/23 14:45	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/17/23 08:38	11/18/23 14:45	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/17/23 08:38	11/18/23 14:45	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/17/23 08:38	11/18/23 14:45	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/17/23 08:38	11/18/23 14:45	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/17/23 08:38	11/18/23 14:45	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/17/23 08:38	11/18/23 14:45	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 14:45	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/17/23 08:38	11/18/23 14:45	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/17/23 08:38	11/18/23 14:45	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/17/23 08:38	11/18/23 14:45	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/17/23 08:38	11/18/23 14:45	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/17/23 08:38	11/18/23 14:45	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 14:45	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 14:45	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/17/23 08:38	11/18/23 14:45	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/17/23 08:38	11/18/23 14:45	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		31 - 132	11/17/23 08:38	11/18/23 14:45	1
2-Fluorobiphenyl	64		40 - 130	11/17/23 08:38	11/18/23 14:45	1
2-Fluorophenol (Surr)	39		21 - 114	11/17/23 08:38	11/18/23 14:45	1
Nitrobenzene-d5 (Surr)	58		37 - 130	11/17/23 08:38	11/18/23 14:45	1
Phenol-d5 (Surr)	41		16 - 117	11/17/23 08:38	11/18/23 14:45	1
p-Terphenyl-d14	62		20 - 141	11/17/23 08:38	11/18/23 14:45	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.175	U	0.667	0.175	ug/L		11/16/23 11:57	11/21/23 00:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	84		37 - 133	11/16/23 11:57	11/21/23 00:15	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: RB-03

Lab Sample ID: 860-61601-7

Date Collected: 11/13/23 14:59

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 13:14	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 13:14	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 13:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 13:14	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 13:14	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 13:14	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 13:14	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 13:14	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 13:14	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 13:14	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 13:14	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 13:14	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 13:14	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 13:14	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 13:14	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 13:14	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 13:14	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 13:14	1
2-Propanol	<5.23	U **	10.0	5.23	ug/L			11/16/23 13:14	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 13:14	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 13:14	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 13:14	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 13:14	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 13:14	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 13:14	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 13:14	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 13:14	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 13:14	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 13:14	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 13:14	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 13:14	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 13:14	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 13:14	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 13:14	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 13:14	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 13:14	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 13:14	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 13:14	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 13:14	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 13:14	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 13:14	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 13:14	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 13:14	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 13:14	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 13:14	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 13:14	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 13:14	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 13:14	1
Isobutanol	<17.1	U **	50.0	17.1	ug/L			11/16/23 13:14	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: RB-03

Lab Sample ID: 860-61601-7

Date Collected: 11/13/23 14:59

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 13:14	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 13:14	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 13:14	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 13:14	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 13:14	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 13:14	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 13:14	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 13:14	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 13:14	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 13:14	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 13:14	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 13:14	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 13:14	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 13:14	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 13:14	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 13:14	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 13:14	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 13:14	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 13:14	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 13:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		11/16/23 13:14	1
4-Bromofluorobenzene (Surr)	96		74 - 124		11/16/23 13:14	1
Dibromofluoromethane (Surr)	101		75 - 131		11/16/23 13:14	1
Toluene-d8 (Surr)	101		80 - 120		11/16/23 13:14	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 15:06	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/17/23 08:38	11/18/23 15:06	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/17/23 08:38	11/18/23 15:06	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/17/23 08:38	11/18/23 15:06	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/17/23 08:38	11/18/23 15:06	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/17/23 08:38	11/18/23 15:06	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/17/23 08:38	11/18/23 15:06	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 15:06	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/17/23 08:38	11/18/23 15:06	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 15:06	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/17/23 08:38	11/18/23 15:06	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/17/23 08:38	11/18/23 15:06	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/17/23 08:38	11/18/23 15:06	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 15:06	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/17/23 08:38	11/18/23 15:06	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 15:06	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/17/23 08:38	11/18/23 15:06	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/17/23 08:38	11/18/23 15:06	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 15:06	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 15:06	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/17/23 08:38	11/18/23 15:06	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: RB-03

Lab Sample ID: 860-61601-7

Date Collected: 11/13/23 14:59

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/17/23 08:38	11/18/23 15:06	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/17/23 08:38	11/18/23 15:06	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/17/23 08:38	11/18/23 15:06	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 15:06	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/17/23 08:38	11/18/23 15:06	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/17/23 08:38	11/18/23 15:06	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 15:06	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 15:06	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/17/23 08:38	11/18/23 15:06	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/17/23 08:38	11/18/23 15:06	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/17/23 08:38	11/18/23 15:06	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/17/23 08:38	11/18/23 15:06	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/17/23 08:38	11/18/23 15:06	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/17/23 08:38	11/18/23 15:06	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/17/23 08:38	11/18/23 15:06	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/17/23 08:38	11/18/23 15:06	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/17/23 08:38	11/18/23 15:06	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/17/23 08:38	11/18/23 15:06	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/17/23 08:38	11/18/23 15:06	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 15:06	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/17/23 08:38	11/18/23 15:06	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/17/23 08:38	11/18/23 15:06	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/17/23 08:38	11/18/23 15:06	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/17/23 08:38	11/18/23 15:06	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 15:06	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/17/23 08:38	11/18/23 15:06	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/17/23 08:38	11/18/23 15:06	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/17/23 08:38	11/18/23 15:06	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/17/23 08:38	11/18/23 15:06	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 15:06	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 15:06	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 15:06	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/17/23 08:38	11/18/23 15:06	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 15:06	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/17/23 08:38	11/18/23 15:06	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/17/23 08:38	11/18/23 15:06	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/17/23 08:38	11/18/23 15:06	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/17/23 08:38	11/18/23 15:06	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/17/23 08:38	11/18/23 15:06	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 15:06	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 15:06	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 15:06	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 15:06	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/17/23 08:38	11/18/23 15:06	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/17/23 08:38	11/18/23 15:06	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/17/23 08:38	11/18/23 15:06	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 15:06	1
Di-n-butyl phthalate	27.5		2.00	0.800	ug/L		11/17/23 08:38	11/18/23 15:06	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/17/23 08:38	11/18/23 15:06	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: RB-03

Lab Sample ID: 860-61601-7

Date Collected: 11/13/23 14:59

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/17/23 08:38	11/18/23 15:06	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/17/23 08:38	11/18/23 15:06	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/17/23 08:38	11/18/23 15:06	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 15:06	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/17/23 08:38	11/18/23 15:06	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/17/23 08:38	11/18/23 15:06	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 15:06	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/17/23 08:38	11/18/23 15:06	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 15:06	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/17/23 08:38	11/18/23 15:06	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/17/23 08:38	11/18/23 15:06	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/17/23 08:38	11/18/23 15:06	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/17/23 08:38	11/18/23 15:06	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/17/23 08:38	11/18/23 15:06	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/17/23 08:38	11/18/23 15:06	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 15:06	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/17/23 08:38	11/18/23 15:06	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/17/23 08:38	11/18/23 15:06	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/17/23 08:38	11/18/23 15:06	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/17/23 08:38	11/18/23 15:06	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/17/23 08:38	11/18/23 15:06	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/17/23 08:38	11/18/23 15:06	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/17/23 08:38	11/18/23 15:06	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 15:06	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/17/23 08:38	11/18/23 15:06	1
N-Nitrosodi-n-propylamine	0.912	J	2.00	0.161	ug/L		11/17/23 08:38	11/18/23 15:06	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/17/23 08:38	11/18/23 15:06	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 15:06	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 15:06	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 15:06	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 15:06	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 15:06	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 15:06	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/17/23 08:38	11/18/23 15:06	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/17/23 08:38	11/18/23 15:06	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/17/23 08:38	11/18/23 15:06	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/17/23 08:38	11/18/23 15:06	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/17/23 08:38	11/18/23 15:06	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/17/23 08:38	11/18/23 15:06	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/17/23 08:38	11/18/23 15:06	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/17/23 08:38	11/18/23 15:06	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/17/23 08:38	11/18/23 15:06	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 15:06	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/17/23 08:38	11/18/23 15:06	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/17/23 08:38	11/18/23 15:06	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/17/23 08:38	11/18/23 15:06	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/17/23 08:38	11/18/23 15:06	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/17/23 08:38	11/18/23 15:06	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 15:06	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: RB-03

Lab Sample ID: 860-61601-7

Date Collected: 11/13/23 14:59

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 15:06	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/17/23 08:38	11/18/23 15:06	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/17/23 08:38	11/18/23 15:06	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	53		31 - 132	11/17/23 08:38	11/18/23 15:06	1
2-Fluorobiphenyl	58		40 - 130	11/17/23 08:38	11/18/23 15:06	1
2-Fluorophenol (Surr)	36		21 - 114	11/17/23 08:38	11/18/23 15:06	1
Nitrobenzene-d5 (Surr)	50		37 - 130	11/17/23 08:38	11/18/23 15:06	1
Phenol-d5 (Surr)	21		16 - 117	11/17/23 08:38	11/18/23 15:06	1
p-Terphenyl-d14	74		20 - 141	11/17/23 08:38	11/18/23 15:06	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.175	U	0.667	0.175	ug/L		11/16/23 11:57	11/21/23 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	86		37 - 133				11/16/23 11:57	11/21/23 00:45	1

Client Sample ID: MW-69

Lab Sample ID: 860-61601-8

Date Collected: 11/13/23 15:42

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 13:35	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 13:35	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 13:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 13:35	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 13:35	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 13:35	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 13:35	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 13:35	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 13:35	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 13:35	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 13:35	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 13:35	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 13:35	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 13:35	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 13:35	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 13:35	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 13:35	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 13:35	1
2-Propanol	<5.23	U *+	10.0	5.23	ug/L			11/16/23 13:35	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 13:35	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 13:35	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 13:35	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 13:35	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 13:35	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 13:35	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-69

Lab Sample ID: 860-61601-8

Date Collected: 11/13/23 15:42

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 13:35	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 13:35	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 13:35	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 13:35	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 13:35	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 13:35	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 13:35	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 13:35	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 13:35	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 13:35	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 13:35	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 13:35	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 13:35	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 13:35	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 13:35	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 13:35	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 13:35	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 13:35	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 13:35	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 13:35	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 13:35	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 13:35	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 13:35	1
Isobutanol	<17.1	U **	50.0	17.1	ug/L			11/16/23 13:35	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 13:35	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 13:35	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 13:35	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 13:35	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 13:35	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 13:35	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 13:35	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 13:35	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 13:35	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 13:35	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 13:35	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 13:35	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 13:35	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 13:35	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 13:35	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 13:35	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 13:35	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 13:35	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 13:35	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		11/16/23 13:35	1
4-Bromofluorobenzene (Surr)	99		74 - 124		11/16/23 13:35	1
Dibromofluoromethane (Surr)	102		75 - 131		11/16/23 13:35	1
Toluene-d8 (Surr)	101		80 - 120		11/16/23 13:35	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-69

Lab Sample ID: 860-61601-8

Date Collected: 11/13/23 15:42

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 15:26	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/17/23 08:38	11/18/23 15:26	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/17/23 08:38	11/18/23 15:26	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/17/23 08:38	11/18/23 15:26	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/17/23 08:38	11/18/23 15:26	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/17/23 08:38	11/18/23 15:26	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/17/23 08:38	11/18/23 15:26	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 15:26	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/17/23 08:38	11/18/23 15:26	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 15:26	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/17/23 08:38	11/18/23 15:26	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/17/23 08:38	11/18/23 15:26	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/17/23 08:38	11/18/23 15:26	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 15:26	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/17/23 08:38	11/18/23 15:26	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 15:26	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/17/23 08:38	11/18/23 15:26	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/17/23 08:38	11/18/23 15:26	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 15:26	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 15:26	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/17/23 08:38	11/18/23 15:26	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/17/23 08:38	11/18/23 15:26	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/17/23 08:38	11/18/23 15:26	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/17/23 08:38	11/18/23 15:26	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 15:26	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/17/23 08:38	11/18/23 15:26	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/17/23 08:38	11/18/23 15:26	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 15:26	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 15:26	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/17/23 08:38	11/18/23 15:26	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/17/23 08:38	11/18/23 15:26	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/17/23 08:38	11/18/23 15:26	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/17/23 08:38	11/18/23 15:26	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/17/23 08:38	11/18/23 15:26	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/17/23 08:38	11/18/23 15:26	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/17/23 08:38	11/18/23 15:26	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/17/23 08:38	11/18/23 15:26	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/17/23 08:38	11/18/23 15:26	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/17/23 08:38	11/18/23 15:26	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/17/23 08:38	11/18/23 15:26	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 15:26	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/17/23 08:38	11/18/23 15:26	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/17/23 08:38	11/18/23 15:26	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/17/23 08:38	11/18/23 15:26	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/17/23 08:38	11/18/23 15:26	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 15:26	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/17/23 08:38	11/18/23 15:26	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/17/23 08:38	11/18/23 15:26	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/17/23 08:38	11/18/23 15:26	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-69

Lab Sample ID: 860-61601-8

Date Collected: 11/13/23 15:42

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.154	U	2.00	0.154	ug/L		11/17/23 08:38	11/18/23 15:26	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 15:26	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 15:26	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 15:26	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/17/23 08:38	11/18/23 15:26	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 15:26	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/17/23 08:38	11/18/23 15:26	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/17/23 08:38	11/18/23 15:26	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/17/23 08:38	11/18/23 15:26	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/17/23 08:38	11/18/23 15:26	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/17/23 08:38	11/18/23 15:26	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 15:26	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 15:26	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 15:26	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 15:26	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/17/23 08:38	11/18/23 15:26	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/17/23 08:38	11/18/23 15:26	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/17/23 08:38	11/18/23 15:26	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 15:26	1
Di-n-butyl phthalate	33.5		2.00	0.800	ug/L		11/17/23 08:38	11/18/23 15:26	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/17/23 08:38	11/18/23 15:26	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/17/23 08:38	11/18/23 15:26	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/17/23 08:38	11/18/23 15:26	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/17/23 08:38	11/18/23 15:26	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 15:26	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/17/23 08:38	11/18/23 15:26	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/17/23 08:38	11/18/23 15:26	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 15:26	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/17/23 08:38	11/18/23 15:26	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 15:26	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/17/23 08:38	11/18/23 15:26	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/17/23 08:38	11/18/23 15:26	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/17/23 08:38	11/18/23 15:26	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/17/23 08:38	11/18/23 15:26	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/17/23 08:38	11/18/23 15:26	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/17/23 08:38	11/18/23 15:26	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 15:26	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/17/23 08:38	11/18/23 15:26	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/17/23 08:38	11/18/23 15:26	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/17/23 08:38	11/18/23 15:26	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/17/23 08:38	11/18/23 15:26	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/17/23 08:38	11/18/23 15:26	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/17/23 08:38	11/18/23 15:26	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/17/23 08:38	11/18/23 15:26	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 15:26	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/17/23 08:38	11/18/23 15:26	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/17/23 08:38	11/18/23 15:26	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/17/23 08:38	11/18/23 15:26	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 15:26	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-69

Lab Sample ID: 860-61601-8

Date Collected: 11/13/23 15:42

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 15:26	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 15:26	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 15:26	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 15:26	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 15:26	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/17/23 08:38	11/18/23 15:26	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/17/23 08:38	11/18/23 15:26	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/17/23 08:38	11/18/23 15:26	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/17/23 08:38	11/18/23 15:26	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/17/23 08:38	11/18/23 15:26	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/17/23 08:38	11/18/23 15:26	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/17/23 08:38	11/18/23 15:26	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/17/23 08:38	11/18/23 15:26	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/17/23 08:38	11/18/23 15:26	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 15:26	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/17/23 08:38	11/18/23 15:26	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/17/23 08:38	11/18/23 15:26	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/17/23 08:38	11/18/23 15:26	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/17/23 08:38	11/18/23 15:26	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/17/23 08:38	11/18/23 15:26	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 15:26	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 15:26	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/17/23 08:38	11/18/23 15:26	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/17/23 08:38	11/18/23 15:26	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		31 - 132	11/17/23 08:38	11/18/23 15:26	1
2-Fluorobiphenyl	61		40 - 130	11/17/23 08:38	11/18/23 15:26	1
2-Fluorophenol (Surr)	38		21 - 114	11/17/23 08:38	11/18/23 15:26	1
Nitrobenzene-d5 (Surr)	51		37 - 130	11/17/23 08:38	11/18/23 15:26	1
Phenol-d5 (Surr)	24		16 - 117	11/17/23 08:38	11/18/23 15:26	1
p-Terphenyl-d14	101		20 - 141	11/17/23 08:38	11/18/23 15:26	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.174	U	0.662	0.174	ug/L		11/16/23 11:57	11/21/23 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	84		37 - 133	11/16/23 11:57	11/21/23 01:14	1

Client Sample ID: FB-03

Lab Sample ID: 860-61601-9

Date Collected: 11/13/23 15:42

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 10:51	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 10:51	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 10:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 10:51	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: FB-03

Lab Sample ID: 860-61601-9

Date Collected: 11/13/23 15:42

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 10:51	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 10:51	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 10:51	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 10:51	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 10:51	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 10:51	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 10:51	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 10:51	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 10:51	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 10:51	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 10:51	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 10:51	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 10:51	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 10:51	1
2-Propanol	<5.23	U *+	10.0	5.23	ug/L			11/16/23 10:51	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 10:51	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 10:51	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 10:51	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 10:51	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 10:51	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 10:51	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 10:51	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 10:51	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 10:51	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 10:51	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 10:51	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 10:51	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 10:51	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 10:51	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 10:51	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 10:51	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 10:51	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 10:51	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 10:51	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 10:51	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 10:51	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 10:51	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 10:51	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 10:51	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 10:51	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 10:51	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 10:51	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 10:51	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 10:51	1
Isobutanol	<17.1	U *+	50.0	17.1	ug/L			11/16/23 10:51	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 10:51	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 10:51	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 10:51	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 10:51	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: FB-03

Lab Sample ID: 860-61601-9

Date Collected: 11/13/23 15:42

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 10:51	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 10:51	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 10:51	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 10:51	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 10:51	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 10:51	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 10:51	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 10:51	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 10:51	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 10:51	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 10:51	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 10:51	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 10:51	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 10:51	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 10:51	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 10:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/16/23 10:51	1
4-Bromofluorobenzene (Surr)	94		74 - 124		11/16/23 10:51	1
Dibromofluoromethane (Surr)	101		75 - 131		11/16/23 10:51	1
Toluene-d8 (Surr)	101		80 - 120		11/16/23 10:51	1

Client Sample ID: MW-66

Lab Sample ID: 860-61601-10

Date Collected: 11/13/23 15:50

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32.2	U	50.0	32.2	ug/L			11/16/23 16:19	50
1,1,1-Trichloroethane	<29.3	U	250	29.3	ug/L			11/16/23 16:19	50
1,1,2,2-Tetrachloroethane	<23.5	U	50.0	23.5	ug/L			11/16/23 16:19	50
1,1,2-Trichloro-1,2,2-trifluoroethane	<55.5	U	500	55.5	ug/L			11/16/23 16:19	50
1,1,2-Trichloroethane	<20.6	U	50.0	20.6	ug/L			11/16/23 16:19	50
1,1-Dichloroethane	<31.8	U	50.0	31.8	ug/L			11/16/23 16:19	50
1,1-Dichloroethene	<36.9	U	50.0	36.9	ug/L			11/16/23 16:19	50
1,2,3-Trichloropropane	<23.5	U	50.0	23.5	ug/L			11/16/23 16:19	50
1,2,4-Trimethylbenzene	154		50.0	20.9	ug/L			11/16/23 16:19	50
1,2-Dibromo-3-Chloropropane	<33.6	U	250	33.6	ug/L			11/16/23 16:19	50
1,2-Dibromoethane	<50.0	U	250	50.0	ug/L			11/16/23 16:19	50
1,2-Dichloroethane	<18.6	U	50.0	18.6	ug/L			11/16/23 16:19	50
1,2-Dichloropropane	<27.8	U	250	27.8	ug/L			11/16/23 16:19	50
1,3,5-Trimethylbenzene	50.9		50.0	20.6	ug/L			11/16/23 16:19	50
1,3-Butadiene	<28.4	U	50.0	28.4	ug/L			11/16/23 16:19	50
2,2,4-Trimethylpentane	<25.0	U	250	25.0	ug/L			11/16/23 16:19	50
2-Butanone (MEK)	<414	U	2500	414	ug/L			11/16/23 16:19	50
2-Hexanone (MBK)	<372	U	2500	372	ug/L			11/16/23 16:19	50
2-Propanol	<261	U *+	500	261	ug/L			11/16/23 16:19	50
3-Chloropropene (Allyl Chloride)	<29.9	U	250	29.9	ug/L			11/16/23 16:19	50
4-Methyl-2-pentanone	<375	U	2500	375	ug/L			11/16/23 16:19	50

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-66

Lab Sample ID: 860-61601-10

Date Collected: 11/13/23 15:50

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<153	U	5000	153	ug/L			11/16/23 16:19	50
Acetonitrile	<730	U	5000	730	ug/L			11/16/23 16:19	50
Acrolein	<556	U	2500	556	ug/L			11/16/23 16:19	50
Acrylonitrile	<716	U	2500	716	ug/L			11/16/23 16:19	50
alpha-Chlorotoluene	<113	U	250	113	ug/L			11/16/23 16:19	50
Benzene	2080		50.0	23.0	ug/L			11/16/23 16:19	50
Bromodichloromethane	<27.6	U	50.0	27.6	ug/L			11/16/23 16:19	50
Bromoform	<31.7	U	250	31.7	ug/L			11/16/23 16:19	50
Bromomethane	<71.0	U	250	71.0	ug/L			11/16/23 16:19	50
Carbon disulfide	<82.5	U	250	82.5	ug/L			11/16/23 16:19	50
Carbon tetrachloride	<44.8	U	250	44.8	ug/L			11/16/23 16:19	50
Chlorobenzene	<22.8	U	50.0	22.8	ug/L			11/16/23 16:19	50
Chlorodibromomethane	<27.4	U	250	27.4	ug/L			11/16/23 16:19	50
Chloroethane	<99.2	U	500	99.2	ug/L			11/16/23 16:19	50
Chloroform	<23.2	U	50.0	23.2	ug/L			11/16/23 16:19	50
Chloromethane	<102	U	500	102	ug/L			11/16/23 16:19	50
Chloroprene	<29.9	U	250	29.9	ug/L			11/16/23 16:19	50
cis-1,2-Dichloroethene	<22.9	U	50.0	22.9	ug/L			11/16/23 16:19	50
cis-1,3-Dichloropropene	<53.4	U	250	53.4	ug/L			11/16/23 16:19	50
Cumene (isopropylbenzene)	<29.6	U	50.0	29.6	ug/L			11/16/23 16:19	50
Cyclohexane	<64.3	U	250	64.3	ug/L			11/16/23 16:19	50
Dibromomethane	<17.9	U	50.0	17.9	ug/L			11/16/23 16:19	50
Dichlorodifluoromethane	<39.3	U	50.0	39.3	ug/L			11/16/23 16:19	50
Ethyl methacrylate	<55.9	U	250	55.9	ug/L			11/16/23 16:19	50
Ethylbenzene	312		50.0	19.3	ug/L			11/16/23 16:19	50
Hexane	36.2 J		250	25.9	ug/L			11/16/23 16:19	50
Iodomethane	<326	U	1000	326	ug/L			11/16/23 16:19	50
Isobutanol	<855	U *+	2500	855	ug/L			11/16/23 16:19	50
Methacrylonitrile	<136	U	500	136	ug/L			11/16/23 16:19	50
Methyl methacrylate	<113	U	500	113	ug/L			11/16/23 16:19	50
Methyl tert-butyl ether	<69.6	U	250	69.6	ug/L			11/16/23 16:19	50
Methylene Chloride	<86.3	U	250	86.3	ug/L			11/16/23 16:19	50
Propionitrile	<167	U	500	167	ug/L			11/16/23 16:19	50
Propylbenzene	27.9 J		50.0	21.5	ug/L			11/16/23 16:19	50
Styrene	<31.0	U	50.0	31.0	ug/L			11/16/23 16:19	50
Tetrachloroethene	<32.8	U	50.0	32.8	ug/L			11/16/23 16:19	50
Tetrahydrofuran	<91.7	U	500	91.7	ug/L			11/16/23 16:19	50
Toluene	57.7		50.0	23.8	ug/L			11/16/23 16:19	50
trans-1,2-Dichloroethene	<18.4	U	50.0	18.4	ug/L			11/16/23 16:19	50
trans-1,3-Dichloropropene	<63.4	U	250	63.4	ug/L			11/16/23 16:19	50
trans-1,4-Dichloro-2-butene	<67.5	U	500	67.5	ug/L			11/16/23 16:19	50
Trichloroethene	<75.0	U	250	75.0	ug/L			11/16/23 16:19	50
Trichlorofluoromethane	<28.0	U	50.0	28.0	ug/L			11/16/23 16:19	50
Vinyl acetate	<107	U	1000	107	ug/L			11/16/23 16:19	50
Vinyl chloride	<21.4	U	100	21.4	ug/L			11/16/23 16:19	50
Xylenes, Total	427 J		500	62.0	ug/L			11/16/23 16:19	50
m,p-Xylenes	0.400 J		0.500	0.0620	mg/L			11/16/23 16:19	50
o-Xylene	0.0265 J		0.0500	0.0251	mg/L			11/16/23 16:19	50

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-66

Lab Sample ID: 860-61601-10

Date Collected: 11/13/23 15:50

Matrix: Water

Date Received: 11/15/23 09:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		11/16/23 16:19	50
4-Bromofluorobenzene (Surr)	94		74 - 124		11/16/23 16:19	50
Dibromofluoromethane (Surr)	102		75 - 131		11/16/23 16:19	50
Toluene-d8 (Surr)	99		80 - 120		11/16/23 16:19	50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 15:47	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/17/23 08:38	11/18/23 15:47	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/17/23 08:38	11/18/23 15:47	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/17/23 08:38	11/18/23 15:47	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/17/23 08:38	11/18/23 15:47	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/17/23 08:38	11/18/23 15:47	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/17/23 08:38	11/18/23 15:47	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 15:47	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/17/23 08:38	11/18/23 15:47	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 15:47	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/17/23 08:38	11/18/23 15:47	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/17/23 08:38	11/18/23 15:47	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/17/23 08:38	11/18/23 15:47	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 15:47	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/17/23 08:38	11/18/23 15:47	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 15:47	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/17/23 08:38	11/18/23 15:47	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/17/23 08:38	11/18/23 15:47	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 15:47	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 15:47	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/17/23 08:38	11/18/23 15:47	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/17/23 08:38	11/18/23 15:47	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/17/23 08:38	11/18/23 15:47	1
2-Methylnaphthalene	14.0		2.00	0.480	ug/L		11/17/23 08:38	11/18/23 15:47	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 15:47	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/17/23 08:38	11/18/23 15:47	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/17/23 08:38	11/18/23 15:47	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 15:47	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 15:47	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/17/23 08:38	11/18/23 15:47	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/17/23 08:38	11/18/23 15:47	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/17/23 08:38	11/18/23 15:47	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/17/23 08:38	11/18/23 15:47	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/17/23 08:38	11/18/23 15:47	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/17/23 08:38	11/18/23 15:47	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/17/23 08:38	11/18/23 15:47	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/17/23 08:38	11/18/23 15:47	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/17/23 08:38	11/18/23 15:47	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/17/23 08:38	11/18/23 15:47	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/17/23 08:38	11/18/23 15:47	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 15:47	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/17/23 08:38	11/18/23 15:47	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/17/23 08:38	11/18/23 15:47	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-66

Lab Sample ID: 860-61601-10

Date Collected: 11/13/23 15:50

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/17/23 08:38	11/18/23 15:47	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/17/23 08:38	11/18/23 15:47	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 15:47	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/17/23 08:38	11/18/23 15:47	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/17/23 08:38	11/18/23 15:47	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/17/23 08:38	11/18/23 15:47	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/17/23 08:38	11/18/23 15:47	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 15:47	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 15:47	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 15:47	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/17/23 08:38	11/18/23 15:47	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 15:47	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/17/23 08:38	11/18/23 15:47	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/17/23 08:38	11/18/23 15:47	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/17/23 08:38	11/18/23 15:47	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/17/23 08:38	11/18/23 15:47	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/17/23 08:38	11/18/23 15:47	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 15:47	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 15:47	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 15:47	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 15:47	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/17/23 08:38	11/18/23 15:47	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/17/23 08:38	11/18/23 15:47	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/17/23 08:38	11/18/23 15:47	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 15:47	1
Di-n-butyl phthalate	26.4		2.00	0.800	ug/L		11/17/23 08:38	11/18/23 15:47	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/17/23 08:38	11/18/23 15:47	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/17/23 08:38	11/18/23 15:47	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/17/23 08:38	11/18/23 15:47	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/17/23 08:38	11/18/23 15:47	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 15:47	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/17/23 08:38	11/18/23 15:47	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/17/23 08:38	11/18/23 15:47	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 15:47	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/17/23 08:38	11/18/23 15:47	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 15:47	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/17/23 08:38	11/18/23 15:47	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/17/23 08:38	11/18/23 15:47	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/17/23 08:38	11/18/23 15:47	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/17/23 08:38	11/18/23 15:47	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/17/23 08:38	11/18/23 15:47	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/17/23 08:38	11/18/23 15:47	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 15:47	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/17/23 08:38	11/18/23 15:47	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/17/23 08:38	11/18/23 15:47	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/17/23 08:38	11/18/23 15:47	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/17/23 08:38	11/18/23 15:47	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/17/23 08:38	11/18/23 15:47	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/17/23 08:38	11/18/23 15:47	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-66

Lab Sample ID: 860-61601-10

Date Collected: 11/13/23 15:50

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 15:47	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/17/23 08:38	11/18/23 15:47	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/17/23 08:38	11/18/23 15:47	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/17/23 08:38	11/18/23 15:47	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 15:47	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 15:47	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 15:47	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 15:47	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 15:47	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 15:47	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/17/23 08:38	11/18/23 15:47	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/17/23 08:38	11/18/23 15:47	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/17/23 08:38	11/18/23 15:47	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/17/23 08:38	11/18/23 15:47	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/17/23 08:38	11/18/23 15:47	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/17/23 08:38	11/18/23 15:47	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/17/23 08:38	11/18/23 15:47	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/17/23 08:38	11/18/23 15:47	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/17/23 08:38	11/18/23 15:47	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 15:47	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/17/23 08:38	11/18/23 15:47	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/17/23 08:38	11/18/23 15:47	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/17/23 08:38	11/18/23 15:47	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/17/23 08:38	11/18/23 15:47	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/17/23 08:38	11/18/23 15:47	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 15:47	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 15:47	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/17/23 08:38	11/18/23 15:47	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/17/23 08:38	11/18/23 15:47	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		31 - 132	11/17/23 08:38	11/18/23 15:47	1
2-Fluorobiphenyl	52		40 - 130	11/17/23 08:38	11/18/23 15:47	1
2-Fluorophenol (Surr)	9	S1-	21 - 114	11/17/23 08:38	11/18/23 15:47	1
Nitrobenzene-d5 (Surr)	65		37 - 130	11/17/23 08:38	11/18/23 15:47	1
Phenol-d5 (Surr)	52		16 - 117	11/17/23 08:38	11/18/23 15:47	1
p-Terphenyl-d14	103		20 - 141	11/17/23 08:38	11/18/23 15:47	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	99.4		20.0	4.23	ug/L		11/17/23 08:38	11/20/23 14:20	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		31 - 132	11/17/23 08:38	11/20/23 14:20	10
2-Fluorobiphenyl	65		40 - 130	11/17/23 08:38	11/20/23 14:20	10
2-Fluorophenol (Surr)	68		21 - 114	11/17/23 08:38	11/20/23 14:20	10
Nitrobenzene-d5 (Surr)	90		37 - 130	11/17/23 08:38	11/20/23 14:20	10
Phenol-d5 (Surr)	66		16 - 117	11/17/23 08:38	11/20/23 14:20	10
p-Terphenyl-d14	116		20 - 141	11/17/23 08:38	11/20/23 14:20	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-66

Date Collected: 11/13/23 15:50

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-10

Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.175	U	0.667	0.175	ug/L		11/16/23 11:57	11/21/23 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	73		37 - 133				11/16/23 11:57	11/21/23 01:44	1

Client Sample ID: MW-64

Date Collected: 11/13/23 16:52

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-11

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32.2	U	50.0	32.2	ug/L			11/16/23 16:39	50
1,1,1-Trichloroethane	<29.3	U	250	29.3	ug/L			11/16/23 16:39	50
1,1,2,2-Tetrachloroethane	<23.5	U	50.0	23.5	ug/L			11/16/23 16:39	50
1,1,2-Trichloro-1,2,2-trifluoroethane	<55.5	U	500	55.5	ug/L			11/16/23 16:39	50
1,1,2-Trichloroethane	<20.6	U	50.0	20.6	ug/L			11/16/23 16:39	50
1,1-Dichloroethane	<31.8	U	50.0	31.8	ug/L			11/16/23 16:39	50
1,1-Dichloroethene	<36.9	U	50.0	36.9	ug/L			11/16/23 16:39	50
1,2,3-Trichloropropane	<23.5	U	50.0	23.5	ug/L			11/16/23 16:39	50
1,2,4-Trimethylbenzene	<20.9	U	50.0	20.9	ug/L			11/16/23 16:39	50
1,2-Dibromo-3-Chloropropane	<33.6	U	250	33.6	ug/L			11/16/23 16:39	50
1,2-Dibromoethane	<50.0	U	250	50.0	ug/L			11/16/23 16:39	50
1,2-Dichloroethane	<18.6	U	50.0	18.6	ug/L			11/16/23 16:39	50
1,2-Dichloropropane	<27.8	U	250	27.8	ug/L			11/16/23 16:39	50
1,3,5-Trimethylbenzene	<20.6	U	50.0	20.6	ug/L			11/16/23 16:39	50
1,3-Butadiene	<28.4	U	50.0	28.4	ug/L			11/16/23 16:39	50
2,2,4-Trimethylpentane	<25.0	U	250	25.0	ug/L			11/16/23 16:39	50
2-Butanone (MEK)	<414	U	2500	414	ug/L			11/16/23 16:39	50
2-Hexanone (MBK)	<372	U	2500	372	ug/L			11/16/23 16:39	50
2-Propanol	<261	U *+	500	261	ug/L			11/16/23 16:39	50
3-Chloropropene (Allyl Chloride)	<29.9	U	250	29.9	ug/L			11/16/23 16:39	50
4-Methyl-2-pentanone	<375	U	2500	375	ug/L			11/16/23 16:39	50
Acetone	<153	U	5000	153	ug/L			11/16/23 16:39	50
Acetonitrile	<730	U	5000	730	ug/L			11/16/23 16:39	50
Acrolein	<556	U	2500	556	ug/L			11/16/23 16:39	50
Acrylonitrile	<716	U	2500	716	ug/L			11/16/23 16:39	50
alpha-Chlorotoluene	<113	U	250	113	ug/L			11/16/23 16:39	50
Benzene	1660		50.0	23.0	ug/L			11/16/23 16:39	50
Bromodichloromethane	<27.6	U	50.0	27.6	ug/L			11/16/23 16:39	50
Bromoform	<31.7	U	250	31.7	ug/L			11/16/23 16:39	50
Bromomethane	<71.0	U	250	71.0	ug/L			11/16/23 16:39	50
Carbon disulfide	<82.5	U	250	82.5	ug/L			11/16/23 16:39	50
Carbon tetrachloride	<44.8	U	250	44.8	ug/L			11/16/23 16:39	50
Chlorobenzene	<22.8	U	50.0	22.8	ug/L			11/16/23 16:39	50
Chlorodibromomethane	<27.4	U	250	27.4	ug/L			11/16/23 16:39	50
Chloroethane	<99.2	U	500	99.2	ug/L			11/16/23 16:39	50
Chloroform	<23.2	U	50.0	23.2	ug/L			11/16/23 16:39	50
Chloromethane	<102	U	500	102	ug/L			11/16/23 16:39	50
Chloroprene	<29.9	U	250	29.9	ug/L			11/16/23 16:39	50
cis-1,2-Dichloroethene	<22.9	U	50.0	22.9	ug/L			11/16/23 16:39	50

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-64

Lab Sample ID: 860-61601-11

Date Collected: 11/13/23 16:52

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<53.4	U	250	53.4	ug/L			11/16/23 16:39	50
Cumene (isopropylbenzene)	42.0	J	50.0	29.6	ug/L			11/16/23 16:39	50
Cyclohexane	<64.3	U	250	64.3	ug/L			11/16/23 16:39	50
Dibromomethane	<17.9	U	50.0	17.9	ug/L			11/16/23 16:39	50
Dichlorodifluoromethane	<39.3	U	50.0	39.3	ug/L			11/16/23 16:39	50
Ethyl methacrylate	<55.9	U	250	55.9	ug/L			11/16/23 16:39	50
Ethylbenzene	227		50.0	19.3	ug/L			11/16/23 16:39	50
Hexane	<25.9	U	250	25.9	ug/L			11/16/23 16:39	50
Iodomethane	<326	U	1000	326	ug/L			11/16/23 16:39	50
Isobutanol	<855	U *+	2500	855	ug/L			11/16/23 16:39	50
Methacrylonitrile	<136	U	500	136	ug/L			11/16/23 16:39	50
Methyl methacrylate	<113	U	500	113	ug/L			11/16/23 16:39	50
Methyl tert-butyl ether	<69.6	U	250	69.6	ug/L			11/16/23 16:39	50
Methylene Chloride	<86.3	U	250	86.3	ug/L			11/16/23 16:39	50
Propionitrile	<167	U	500	167	ug/L			11/16/23 16:39	50
Propylbenzene	70.5		50.0	21.5	ug/L			11/16/23 16:39	50
Styrene	<31.0	U	50.0	31.0	ug/L			11/16/23 16:39	50
Tetrachloroethene	<32.8	U	50.0	32.8	ug/L			11/16/23 16:39	50
Tetrahydrofuran	<91.7	U	500	91.7	ug/L			11/16/23 16:39	50
Toluene	42.7	J	50.0	23.8	ug/L			11/16/23 16:39	50
trans-1,2-Dichloroethene	<18.4	U	50.0	18.4	ug/L			11/16/23 16:39	50
trans-1,3-Dichloropropene	<63.4	U	250	63.4	ug/L			11/16/23 16:39	50
trans-1,4-Dichloro-2-butene	<67.5	U	500	67.5	ug/L			11/16/23 16:39	50
Trichloroethene	<75.0	U	250	75.0	ug/L			11/16/23 16:39	50
Trichlorofluoromethane	<28.0	U	50.0	28.0	ug/L			11/16/23 16:39	50
Vinyl acetate	<107	U	1000	107	ug/L			11/16/23 16:39	50
Vinyl chloride	<21.4	U	100	21.4	ug/L			11/16/23 16:39	50
Xylenes, Total	85.5	J	500	62.0	ug/L			11/16/23 16:39	50
m,p-Xylenes	0.0855	J	0.500	0.0620	mg/L			11/16/23 16:39	50
o-Xylene	<0.0251	U	0.0500	0.0251	mg/L			11/16/23 16:39	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/16/23 16:39	50
4-Bromofluorobenzene (Surr)	96		74 - 124		11/16/23 16:39	50
Dibromofluoromethane (Surr)	102		75 - 131		11/16/23 16:39	50
Toluene-d8 (Surr)	100		80 - 120		11/16/23 16:39	50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<8.57	U	40.0	8.57	ug/L		11/17/23 08:38	11/18/23 17:52	20
1,2,4,5-Tetrachlorobenzene	<13.4	U	40.0	13.4	ug/L		11/17/23 08:38	11/18/23 17:52	20
1,2,4-Trichlorobenzene	<13.6	U	40.0	13.6	ug/L		11/17/23 08:38	11/18/23 17:52	20
1,2-Dichlorobenzene	<5.93	U	40.0	5.93	ug/L		11/17/23 08:38	11/18/23 17:52	20
1,3,5-Trinitrobenzene	<28.6	U	40.0	28.6	ug/L		11/17/23 08:38	11/18/23 17:52	20
1,3-Dichlorobenzene	<7.01	U	40.0	7.01	ug/L		11/17/23 08:38	11/18/23 17:52	20
1,3-Dinitrobenzene	<2.24	U	40.0	2.24	ug/L		11/17/23 08:38	11/18/23 17:52	20
1,4-Dichlorobenzene	<8.57	U	40.0	8.57	ug/L		11/17/23 08:38	11/18/23 17:52	20
1,4-Naphthoquinone	<37.0	U	160	37.0	ug/L		11/17/23 08:38	11/18/23 17:52	20
1-Naphthylamine	<4.63	U	40.0	4.63	ug/L		11/17/23 08:38	11/18/23 17:52	20
2,2'-oxybis[1-chloropropane]	<2.78	U	40.0	2.78	ug/L		11/17/23 08:38	11/18/23 17:52	20

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-64

Lab Sample ID: 860-61601-11

Date Collected: 11/13/23 16:52

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	<3.49	U	40.0	3.49	ug/L		11/17/23 08:38	11/18/23 17:52	20
2,4,5-Trichlorophenol	<2.17	U	40.0	2.17	ug/L		11/17/23 08:38	11/18/23 17:52	20
2,4,6-Trichlorophenol	<2.70	U	40.0	2.70	ug/L		11/17/23 08:38	11/18/23 17:52	20
2,4-Dichlorophenol	<2.29	U	40.0	2.29	ug/L		11/17/23 08:38	11/18/23 17:52	20
2,4-Dimethylphenol	<2.95	U	40.0	2.95	ug/L		11/17/23 08:38	11/18/23 17:52	20
2,4-Dinitrophenol	<29.1	U	160	29.1	ug/L		11/17/23 08:38	11/18/23 17:52	20
2,4-Dinitrotoluene	<2.54	U	40.0	2.54	ug/L		11/17/23 08:38	11/18/23 17:52	20
2,6-Dichlorophenol	<2.51	U	40.0	2.51	ug/L		11/17/23 08:38	11/18/23 17:52	20
2,6-Dinitrotoluene	<3.97	U	40.0	3.97	ug/L		11/17/23 08:38	11/18/23 17:52	20
2-Acetylaminofluorene	<30.4	U	160	30.4	ug/L		11/17/23 08:38	11/18/23 17:52	20
2-Chloronaphthalene	<21.8	U	160	21.8	ug/L		11/17/23 08:38	11/18/23 17:52	20
2-Chlorophenol	<0.270	U	40.0	0.270	ug/L		11/17/23 08:38	11/18/23 17:52	20
2-Methylnaphthalene	34.7	J	40.0	9.59	ug/L		11/17/23 08:38	11/18/23 17:52	20
2-Methylphenol	<3.19	U	40.0	3.19	ug/L		11/17/23 08:38	11/18/23 17:52	20
2-Naphthylamine	<11.9	U	160	11.9	ug/L		11/17/23 08:38	11/18/23 17:52	20
2-Nitroaniline	<3.26	U	80.0	3.26	ug/L		11/17/23 08:38	11/18/23 17:52	20
2-Nitrophenol	<2.70	U	40.0	2.70	ug/L		11/17/23 08:38	11/18/23 17:52	20
2-Picoline	<4.30	U	40.0	4.30	ug/L		11/17/23 08:38	11/18/23 17:52	20
2-Toluidine	<18.7	U	160	18.7	ug/L		11/17/23 08:38	11/18/23 17:52	20
3 & 4 Methylphenol	<3.26	U	40.0	3.26	ug/L		11/17/23 08:38	11/18/23 17:52	20
3,3'-Dichlorobenzidine	<4.40	U	80.0	4.40	ug/L		11/17/23 08:38	11/18/23 17:52	20
3,3'-Dimethylbenzidine	<8.87	U *	160	8.87	ug/L		11/17/23 08:38	11/18/23 17:52	20
3-Methylcholanthrene	<3.17	U	160	3.17	ug/L		11/17/23 08:38	11/18/23 17:52	20
3-Nitroaniline	<6.88	U	40.0	6.88	ug/L		11/17/23 08:38	11/18/23 17:52	20
4,6-Dinitro-2-methylphenol	<14.7	U	160	14.7	ug/L		11/17/23 08:38	11/18/23 17:52	20
4-Aminobiphenyl	<5.94	U	160	5.94	ug/L		11/17/23 08:38	11/18/23 17:52	20
4-Bromophenyl phenyl ether	<3.34	U	40.0	3.34	ug/L		11/17/23 08:38	11/18/23 17:52	20
4-Chloro-3-methylphenol	<3.14	U	40.0	3.14	ug/L		11/17/23 08:38	11/18/23 17:52	20
4-Chloroaniline	<2.98	U	80.0	2.98	ug/L		11/17/23 08:38	11/18/23 17:52	20
4-Chlorophenyl phenyl ether	<4.65	U	40.0	4.65	ug/L		11/17/23 08:38	11/18/23 17:52	20
4-Nitroaniline	<4.94	U	80.0	4.94	ug/L		11/17/23 08:38	11/18/23 17:52	20
4-Nitroquinoline-1-oxide	<43.0	U	80.0	43.0	ug/L		11/17/23 08:38	11/18/23 17:52	20
7,12-Dimethylbenz(a)anthracene	<1.22	U	160	1.22	ug/L		11/17/23 08:38	11/18/23 17:52	20
Acenaphthene	<4.16	U	40.0	4.16	ug/L		11/17/23 08:38	11/18/23 17:52	20
Acenaphthylene	<4.29	U	40.0	4.29	ug/L		11/17/23 08:38	11/18/23 17:52	20
Acetophenone	<4.49	U	80.0	4.49	ug/L		11/17/23 08:38	11/18/23 17:52	20
alpha,alpha-Dimethyl phenethylamine	<80.0	U	80.0	80.0	ug/L		11/17/23 08:38	11/18/23 17:52	20
Aniline	<6.28	U	80.0	6.28	ug/L		11/17/23 08:38	11/18/23 17:52	20
Anthracene	<3.07	U	40.0	3.07	ug/L		11/17/23 08:38	11/18/23 17:52	20
Aramite, Total	<13.4	U	80.0	13.4	ug/L		11/17/23 08:38	11/18/23 17:52	20
Benzo[a]anthracene	<3.00	U	40.0	3.00	ug/L		11/17/23 08:38	11/18/23 17:52	20
Benzo[a]pyrene	<2.95	U	40.0	2.95	ug/L		11/17/23 08:38	11/18/23 17:52	20
Benzo[b]fluoranthene	<4.19	U	40.0	4.19	ug/L		11/17/23 08:38	11/18/23 17:52	20
Benzo[g,h,i]perylene	<2.86	U	40.0	2.86	ug/L		11/17/23 08:38	11/18/23 17:52	20
Benzo[k]fluoranthene	<3.32	U	40.0	3.32	ug/L		11/17/23 08:38	11/18/23 17:52	20
Benzyl alcohol	<90.0	U	160	90.0	ug/L		11/17/23 08:38	11/18/23 17:52	20
Bis(2-chloroethoxy)methane	<3.40	U	40.0	3.40	ug/L		11/17/23 08:38	11/18/23 17:52	20
Bis(2-chloroethyl)ether	<5.56	U	40.0	5.56	ug/L		11/17/23 08:38	11/18/23 17:52	20
Bis(2-ethylhexyl) phthalate	<4.49	U	40.0	4.49	ug/L		11/17/23 08:38	11/18/23 17:52	20

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-64

Lab Sample ID: 860-61601-11

Date Collected: 11/13/23 16:52

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	<3.00	U	40.0	3.00	ug/L		11/17/23 08:38	11/18/23 17:52	20
Chrysene	<3.19	U	40.0	3.19	ug/L		11/17/23 08:38	11/18/23 17:52	20
Diallate	<12.0	U	160	12.0	ug/L		11/17/23 08:38	11/18/23 17:52	20
Dibenz(a,h)anthracene	<2.95	U	40.0	2.95	ug/L		11/17/23 08:38	11/18/23 17:52	20
Dibenzofuran	<6.71	U	40.0	6.71	ug/L		11/17/23 08:38	11/18/23 17:52	20
Diethyl phthalate	<2.36	U	40.0	2.36	ug/L		11/17/23 08:38	11/18/23 17:52	20
Dimethoate	<34.0	U	160	34.0	ug/L		11/17/23 08:38	11/18/23 17:52	20
Dimethyl phthalate	<2.85	U	40.0	2.85	ug/L		11/17/23 08:38	11/18/23 17:52	20
Di-n-butyl phthalate	30.8	J	40.0	16.0	ug/L		11/17/23 08:38	11/18/23 17:52	20
Di-n-octyl phthalate	<3.39	U	40.0	3.39	ug/L		11/17/23 08:38	11/18/23 17:52	20
Dinoseb	<40.0	U	80.0	40.0	ug/L		11/17/23 08:38	11/18/23 17:52	20
Diphenyl ether	<7.27	U	160	7.27	ug/L		11/17/23 08:38	11/18/23 17:52	20
Disulfoton	<27.8	U	160	27.8	ug/L		11/17/23 08:38	11/18/23 17:52	20
Ethyl methanesulfonate	<27.6	U	80.0	27.6	ug/L		11/17/23 08:38	11/18/23 17:52	20
Ethyl Parathion	<28.3	U	80.0	28.3	ug/L		11/17/23 08:38	11/18/23 17:52	20
Famphur	<160	U	160	160	ug/L		11/17/23 08:38	11/18/23 17:52	20
Fluoranthene	<2.95	U	40.0	2.95	ug/L		11/17/23 08:38	11/18/23 17:52	20
Fluorene	<4.11	U	40.0	4.11	ug/L		11/17/23 08:38	11/18/23 17:52	20
Hexachlorobenzene	<2.51	U	40.0	2.51	ug/L		11/17/23 08:38	11/18/23 17:52	20
Hexachlorobutadiene	<5.04	U	40.0	5.04	ug/L		11/17/23 08:38	11/18/23 17:52	20
Hexachlorocyclopentadiene	<8.62	U	40.0	8.62	ug/L		11/17/23 08:38	11/18/23 17:52	20
Hexachloroethane	<2.80	U	40.0	2.80	ug/L		11/17/23 08:38	11/18/23 17:52	20
Hexachloropropene	<4.26	U	80.0	4.26	ug/L		11/17/23 08:38	11/18/23 17:52	20
Indeno[1,2,3-cd]pyrene	<17.0	U	40.0	17.0	ug/L		11/17/23 08:38	11/18/23 17:52	20
Isophorone	<3.36	U	40.0	3.36	ug/L		11/17/23 08:38	11/18/23 17:52	20
Isosafrole	<49.3	U	120	49.3	ug/L		11/17/23 08:38	11/18/23 17:52	20
Methapyrilene	<3.62	U	40.0	3.62	ug/L		11/17/23 08:38	11/18/23 17:52	20
Methyl methanesulfonate	<1.22	U	40.0	1.22	ug/L		11/17/23 08:38	11/18/23 17:52	20
Methyl parathion	<32.9	U	80.0	32.9	ug/L		11/17/23 08:38	11/18/23 17:52	20
Naphthalene	191		40.0	8.46	ug/L		11/17/23 08:38	11/18/23 17:52	20
Nitrobenzene	<18.7	U	40.0	18.7	ug/L		11/17/23 08:38	11/18/23 17:52	20
N-Nitro-o-toluidine	<26.2	U	160	26.2	ug/L		11/17/23 08:38	11/18/23 17:52	20
N-Nitrosodiethylamine	<30.8	U	80.0	30.8	ug/L		11/17/23 08:38	11/18/23 17:52	20
N-Nitrosodimethylamine	<2.51	U	40.0	2.51	ug/L		11/17/23 08:38	11/18/23 17:52	20
N-Nitrosodi-n-butylamine	<30.8	U	40.0	30.8	ug/L		11/17/23 08:38	11/18/23 17:52	20
N-Nitrosodi-n-propylamine	<3.23	U	40.0	3.23	ug/L		11/17/23 08:38	11/18/23 17:52	20
N-Nitrosodiphenylamine	<3.09	U	40.0	3.09	ug/L		11/17/23 08:38	11/18/23 17:52	20
N-Nitrosomethylethylamine	<3.98	U	40.0	3.98	ug/L		11/17/23 08:38	11/18/23 17:52	20
N-Nitrosomorpholine	<28.8	U	80.0	28.8	ug/L		11/17/23 08:38	11/18/23 17:52	20
N-Nitrosopiperidine	<28.8	U	80.0	28.8	ug/L		11/17/23 08:38	11/18/23 17:52	20
N-Nitrosopyrrolidine	<27.6	U	80.0	27.6	ug/L		11/17/23 08:38	11/18/23 17:52	20
o,o',o"-Triethylphosphorothioate	<1.16	U	160	1.16	ug/L		11/17/23 08:38	11/18/23 17:52	20
p-Dimethylamino azobenzene	<1.16	U	160	1.16	ug/L		11/17/23 08:38	11/18/23 17:52	20
Pentachlorobenzene	<23.6	U	40.0	23.6	ug/L		11/17/23 08:38	11/18/23 17:52	20
Pentachloronitrobenzene	<25.3	U	40.0	25.3	ug/L		11/17/23 08:38	11/18/23 17:52	20
Pentachlorophenol	<8.82	U	40.0	8.82	ug/L		11/17/23 08:38	11/18/23 17:52	20
Phenacetin	<26.5	U	160	26.5	ug/L		11/17/23 08:38	11/18/23 17:52	20
Phenanthrene	<3.53	U	40.0	3.53	ug/L		11/17/23 08:38	11/18/23 17:52	20
Phenol	<4.04	U	80.0	4.04	ug/L		11/17/23 08:38	11/18/23 17:52	20

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-64

Lab Sample ID: 860-61601-11

Date Collected: 11/13/23 16:52

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	<28.0	U	160	28.0	ug/L		11/17/23 08:38	11/18/23 17:52	20
p-Phenylene diamine	<200	U *	200	200	ug/L		11/17/23 08:38	11/18/23 17:52	20
Pronamide	<27.7	U	80.0	27.7	ug/L		11/17/23 08:38	11/18/23 17:52	20
Pyrene	<3.19	U	40.0	3.19	ug/L		11/17/23 08:38	11/18/23 17:52	20
Pyridine	<14.5	U	40.0	14.5	ug/L		11/17/23 08:38	11/18/23 17:52	20
Safrole, Total	<3.66	U	80.0	3.66	ug/L		11/17/23 08:38	11/18/23 17:52	20
Sulfotepp	<28.6	U	80.0	28.6	ug/L		11/17/23 08:38	11/18/23 17:52	20
Thionazin	<28.7	U	160	28.7	ug/L		11/17/23 08:38	11/18/23 17:52	20
Aramite Peak 2	<54.9	U	80.0	54.9	ug/L		11/17/23 08:38	11/18/23 17:52	20
Isosafrole Peak 1	<49.3	U	120	49.3	ug/L		11/17/23 08:38	11/18/23 17:52	20
Diallate Peak 2	<12.0	U	160	12.0	ug/L		11/17/23 08:38	11/18/23 17:52	20
Isosafrole Peak 2	<42.3	U	120	42.3	ug/L		11/17/23 08:38	11/18/23 17:52	20
Diallate Peak 1	<13.5	U	160	13.5	ug/L		11/17/23 08:38	11/18/23 17:52	20
Aramite Peak 1	<13.4	U	80.0	13.4	ug/L		11/17/23 08:38	11/18/23 17:52	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	50		31 - 132	11/17/23 08:38	11/18/23 17:52	20
2-Fluorobiphenyl	60		40 - 130	11/17/23 08:38	11/18/23 17:52	20
2-Fluorophenol (Surr)	36		21 - 114	11/17/23 08:38	11/18/23 17:52	20
Nitrobenzene-d5 (Surr)	70		37 - 130	11/17/23 08:38	11/18/23 17:52	20
Phenol-d5 (Surr)	59		16 - 117	11/17/23 08:38	11/18/23 17:52	20
p-Terphenyl-d14	95		20 - 141	11/17/23 08:38	11/18/23 17:52	20

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.177	U	0.673	0.177	ug/L		11/16/23 11:57	11/21/23 02:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	90		37 - 133	11/16/23 11:57	11/21/23 02:13	1

Client Sample ID: DUPE-03

Lab Sample ID: 860-61601-12

Date Collected: 11/13/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32.2	U	50.0	32.2	ug/L			11/16/23 15:38	50
1,1,1-Trichloroethane	<29.3	U	250	29.3	ug/L			11/16/23 15:38	50
1,1,2,2-Tetrachloroethane	<23.5	U	50.0	23.5	ug/L			11/16/23 15:38	50
1,1,2-Trichloro-1,2,2-trifluoroethane	<55.5	U	500	55.5	ug/L			11/16/23 15:38	50
1,1,2-Trichloroethane	<20.6	U	50.0	20.6	ug/L			11/16/23 15:38	50
1,1-Dichloroethane	<31.8	U	50.0	31.8	ug/L			11/16/23 15:38	50
1,1-Dichloroethene	<36.9	U	50.0	36.9	ug/L			11/16/23 15:38	50
1,2,3-Trichloropropane	<23.5	U	50.0	23.5	ug/L			11/16/23 15:38	50
1,2,4-Trimethylbenzene	<20.9	U	50.0	20.9	ug/L			11/16/23 15:38	50
1,2-Dibromo-3-Chloropropane	<33.6	U	250	33.6	ug/L			11/16/23 15:38	50
1,2-Dibromoethane	<50.0	U	250	50.0	ug/L			11/16/23 15:38	50
1,2-Dichloroethane	<18.6	U	50.0	18.6	ug/L			11/16/23 15:38	50
1,2-Dichloropropane	<27.8	U	250	27.8	ug/L			11/16/23 15:38	50
1,3,5-Trimethylbenzene	<20.6	U	50.0	20.6	ug/L			11/16/23 15:38	50
1,3-Butadiene	<28.4	U	50.0	28.4	ug/L			11/16/23 15:38	50

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: DUPE-03

Lab Sample ID: 860-61601-12

Date Collected: 11/13/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	<25.0	U	250	25.0	ug/L			11/16/23 15:38	50
2-Butanone (MEK)	<414	U	2500	414	ug/L			11/16/23 15:38	50
2-Hexanone (MBK)	<372	U	2500	372	ug/L			11/16/23 15:38	50
2-Propanol	<261	U *+	500	261	ug/L			11/16/23 15:38	50
3-Chloropropene (Allyl Chloride)	<29.9	U	250	29.9	ug/L			11/16/23 15:38	50
4-Methyl-2-pentanone	<375	U	2500	375	ug/L			11/16/23 15:38	50
Acetone	<153	U	5000	153	ug/L			11/16/23 15:38	50
Acetonitrile	<730	U	5000	730	ug/L			11/16/23 15:38	50
Acrolein	<556	U	2500	556	ug/L			11/16/23 15:38	50
Acrylonitrile	<716	U	2500	716	ug/L			11/16/23 15:38	50
alpha-Chlorotoluene	<113	U	250	113	ug/L			11/16/23 15:38	50
Benzene	1650		50.0	23.0	ug/L			11/16/23 15:38	50
Bromodichloromethane	<27.6	U	50.0	27.6	ug/L			11/16/23 15:38	50
Bromoform	<31.7	U	250	31.7	ug/L			11/16/23 15:38	50
Bromomethane	<71.0	U	250	71.0	ug/L			11/16/23 15:38	50
Carbon disulfide	<82.5	U	250	82.5	ug/L			11/16/23 15:38	50
Carbon tetrachloride	<44.8	U	250	44.8	ug/L			11/16/23 15:38	50
Chlorobenzene	<22.8	U	50.0	22.8	ug/L			11/16/23 15:38	50
Chlorodibromomethane	<27.4	U	250	27.4	ug/L			11/16/23 15:38	50
Chloroethane	<99.2	U	500	99.2	ug/L			11/16/23 15:38	50
Chloroform	<23.2	U	50.0	23.2	ug/L			11/16/23 15:38	50
Chloromethane	<102	U	500	102	ug/L			11/16/23 15:38	50
Chloroprene	<29.9	U	250	29.9	ug/L			11/16/23 15:38	50
cis-1,2-Dichloroethene	<22.9	U	50.0	22.9	ug/L			11/16/23 15:38	50
cis-1,3-Dichloropropene	<53.4	U	250	53.4	ug/L			11/16/23 15:38	50
Cumene (isopropylbenzene)	43.0	J	50.0	29.6	ug/L			11/16/23 15:38	50
Cyclohexane	<64.3	U	250	64.3	ug/L			11/16/23 15:38	50
Dibromomethane	<17.9	U	50.0	17.9	ug/L			11/16/23 15:38	50
Dichlorodifluoromethane	<39.3	U	50.0	39.3	ug/L			11/16/23 15:38	50
Ethyl methacrylate	<55.9	U	250	55.9	ug/L			11/16/23 15:38	50
Ethylbenzene	225		50.0	19.3	ug/L			11/16/23 15:38	50
Hexane	<25.9	U	250	25.9	ug/L			11/16/23 15:38	50
Iodomethane	<326	U	1000	326	ug/L			11/16/23 15:38	50
Isobutanol	<855	U *+	2500	855	ug/L			11/16/23 15:38	50
Methacrylonitrile	<136	U	500	136	ug/L			11/16/23 15:38	50
Methyl methacrylate	<113	U	500	113	ug/L			11/16/23 15:38	50
Methyl tert-butyl ether	<69.6	U	250	69.6	ug/L			11/16/23 15:38	50
Methylene Chloride	<86.3	U	250	86.3	ug/L			11/16/23 15:38	50
Propionitrile	<167	U	500	167	ug/L			11/16/23 15:38	50
Propylbenzene	82.5		50.0	21.5	ug/L			11/16/23 15:38	50
Styrene	<31.0	U	50.0	31.0	ug/L			11/16/23 15:38	50
Tetrachloroethene	<32.8	U	50.0	32.8	ug/L			11/16/23 15:38	50
Tetrahydrofuran	<91.7	U	500	91.7	ug/L			11/16/23 15:38	50
Toluene	42.2	J	50.0	23.8	ug/L			11/16/23 15:38	50
trans-1,2-Dichloroethene	<18.4	U	50.0	18.4	ug/L			11/16/23 15:38	50
trans-1,3-Dichloropropene	<63.4	U	250	63.4	ug/L			11/16/23 15:38	50
trans-1,4-Dichloro-2-butene	<67.5	U	500	67.5	ug/L			11/16/23 15:38	50
Trichloroethene	<75.0	U	250	75.0	ug/L			11/16/23 15:38	50
Trichlorofluoromethane	<28.0	U	50.0	28.0	ug/L			11/16/23 15:38	50

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: DUPE-03

Lab Sample ID: 860-61601-12

Date Collected: 11/13/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	<107	U	1000	107	ug/L			11/16/23 15:38	50
Vinyl chloride	<21.4	U	100	21.4	ug/L			11/16/23 15:38	50
Xylenes, Total	84.5	J	500	62.0	ug/L			11/16/23 15:38	50
m,p-Xylenes	0.0845	J	0.500	0.0620	mg/L			11/16/23 15:38	50
o-Xylene	<0.0251	U	0.0500	0.0251	mg/L			11/16/23 15:38	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		11/16/23 15:38	50
4-Bromofluorobenzene (Surr)	101		74 - 124		11/16/23 15:38	50
Dibromofluoromethane (Surr)	100		75 - 131		11/16/23 15:38	50
Toluene-d8 (Surr)	102		80 - 120		11/16/23 15:38	50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 16:08	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/17/23 08:38	11/18/23 16:08	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/17/23 08:38	11/18/23 16:08	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/17/23 08:38	11/18/23 16:08	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/17/23 08:38	11/18/23 16:08	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/17/23 08:38	11/18/23 16:08	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/17/23 08:38	11/18/23 16:08	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 16:08	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/17/23 08:38	11/18/23 16:08	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 16:08	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/17/23 08:38	11/18/23 16:08	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/17/23 08:38	11/18/23 16:08	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/17/23 08:38	11/18/23 16:08	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 16:08	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/17/23 08:38	11/18/23 16:08	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 16:08	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/17/23 08:38	11/18/23 16:08	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/17/23 08:38	11/18/23 16:08	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 16:08	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 16:08	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/17/23 08:38	11/18/23 16:08	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/17/23 08:38	11/18/23 16:08	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/17/23 08:38	11/18/23 16:08	1
2-Methylnaphthalene	32.7		2.00	0.480	ug/L		11/17/23 08:38	11/18/23 16:08	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 16:08	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/17/23 08:38	11/18/23 16:08	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/17/23 08:38	11/18/23 16:08	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 16:08	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 16:08	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/17/23 08:38	11/18/23 16:08	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/17/23 08:38	11/18/23 16:08	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/17/23 08:38	11/18/23 16:08	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/17/23 08:38	11/18/23 16:08	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/17/23 08:38	11/18/23 16:08	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/17/23 08:38	11/18/23 16:08	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/17/23 08:38	11/18/23 16:08	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: DUPE-03

Lab Sample ID: 860-61601-12

Date Collected: 11/13/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/17/23 08:38	11/18/23 16:08	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/17/23 08:38	11/18/23 16:08	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/17/23 08:38	11/18/23 16:08	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/17/23 08:38	11/18/23 16:08	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 16:08	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/17/23 08:38	11/18/23 16:08	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/17/23 08:38	11/18/23 16:08	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/17/23 08:38	11/18/23 16:08	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/17/23 08:38	11/18/23 16:08	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 16:08	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/17/23 08:38	11/18/23 16:08	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/17/23 08:38	11/18/23 16:08	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/17/23 08:38	11/18/23 16:08	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/17/23 08:38	11/18/23 16:08	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 16:08	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 16:08	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 16:08	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/17/23 08:38	11/18/23 16:08	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 16:08	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/17/23 08:38	11/18/23 16:08	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/17/23 08:38	11/18/23 16:08	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/17/23 08:38	11/18/23 16:08	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/17/23 08:38	11/18/23 16:08	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/17/23 08:38	11/18/23 16:08	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 16:08	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 16:08	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 16:08	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 16:08	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/17/23 08:38	11/18/23 16:08	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/17/23 08:38	11/18/23 16:08	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/17/23 08:38	11/18/23 16:08	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 16:08	1
Di-n-butyl phthalate	24.9		2.00	0.800	ug/L		11/17/23 08:38	11/18/23 16:08	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/17/23 08:38	11/18/23 16:08	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/17/23 08:38	11/18/23 16:08	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/17/23 08:38	11/18/23 16:08	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/17/23 08:38	11/18/23 16:08	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 16:08	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/17/23 08:38	11/18/23 16:08	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/17/23 08:38	11/18/23 16:08	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 16:08	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/17/23 08:38	11/18/23 16:08	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 16:08	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/17/23 08:38	11/18/23 16:08	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/17/23 08:38	11/18/23 16:08	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/17/23 08:38	11/18/23 16:08	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/17/23 08:38	11/18/23 16:08	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/17/23 08:38	11/18/23 16:08	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/17/23 08:38	11/18/23 16:08	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: DUPE-03

Lab Sample ID: 860-61601-12

Date Collected: 11/13/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 16:08	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/17/23 08:38	11/18/23 16:08	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/17/23 08:38	11/18/23 16:08	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/17/23 08:38	11/18/23 16:08	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/17/23 08:38	11/18/23 16:08	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/17/23 08:38	11/18/23 16:08	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/17/23 08:38	11/18/23 16:08	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 16:08	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/17/23 08:38	11/18/23 16:08	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/17/23 08:38	11/18/23 16:08	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/17/23 08:38	11/18/23 16:08	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 16:08	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 16:08	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 16:08	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 16:08	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 16:08	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 16:08	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/17/23 08:38	11/18/23 16:08	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/17/23 08:38	11/18/23 16:08	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/17/23 08:38	11/18/23 16:08	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/17/23 08:38	11/18/23 16:08	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/17/23 08:38	11/18/23 16:08	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/17/23 08:38	11/18/23 16:08	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/17/23 08:38	11/18/23 16:08	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/17/23 08:38	11/18/23 16:08	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/17/23 08:38	11/18/23 16:08	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 16:08	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/17/23 08:38	11/18/23 16:08	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/17/23 08:38	11/18/23 16:08	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/17/23 08:38	11/18/23 16:08	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/17/23 08:38	11/18/23 16:08	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/17/23 08:38	11/18/23 16:08	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 16:08	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 16:08	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/17/23 08:38	11/18/23 16:08	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/17/23 08:38	11/18/23 16:08	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		31 - 132	11/17/23 08:38	11/18/23 16:08	1
2-Fluorobiphenyl	55		40 - 130	11/17/23 08:38	11/18/23 16:08	1
2-Fluorophenol (Surr)	9	S1-	21 - 114	11/17/23 08:38	11/18/23 16:08	1
Nitrobenzene-d5 (Surr)	59		37 - 130	11/17/23 08:38	11/18/23 16:08	1
Phenol-d5 (Surr)	60		16 - 117	11/17/23 08:38	11/18/23 16:08	1
p-Terphenyl-d14	100		20 - 141	11/17/23 08:38	11/18/23 16:08	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	210		20.0	4.23	ug/L		11/17/23 08:38	11/20/23 14:41	10

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: DUPE-03

Date Collected: 11/13/23 00:00

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-12

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	53		31 - 132	11/17/23 08:38	11/20/23 14:41	10
2-Fluorobiphenyl	63		40 - 130	11/17/23 08:38	11/20/23 14:41	10
2-Fluorophenol (Surr)	38		21 - 114	11/17/23 08:38	11/20/23 14:41	10
Nitrobenzene-d5 (Surr)	73		37 - 130	11/17/23 08:38	11/20/23 14:41	10
Phenol-d5 (Surr)	73		16 - 117	11/17/23 08:38	11/20/23 14:41	10
p-Terphenyl-d14	104		20 - 141	11/17/23 08:38	11/20/23 14:41	10

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.174	U	0.664	0.174	ug/L		11/16/23 11:57	11/21/23 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	95		37 - 133	11/16/23 11:57	11/21/23 02:42	1

Client Sample ID: TB-08 (111323)

Date Collected: 11/13/23 00:00

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-13

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 10:30	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 10:30	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 10:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 10:30	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 10:30	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 10:30	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 10:30	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 10:30	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 10:30	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 10:30	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 10:30	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 10:30	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 10:30	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 10:30	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 10:30	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 10:30	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 10:30	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 10:30	1
2-Propanol	<5.23	U *+	10.0	5.23	ug/L			11/16/23 10:30	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 10:30	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 10:30	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 10:30	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 10:30	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 10:30	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 10:30	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 10:30	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 10:30	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 10:30	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 10:30	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 10:30	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 10:30	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: TB-08 (111323)

Lab Sample ID: 860-61601-13

Date Collected: 11/13/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 10:30	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 10:30	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 10:30	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 10:30	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 10:30	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 10:30	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 10:30	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 10:30	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 10:30	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 10:30	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 10:30	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 10:30	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 10:30	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 10:30	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 10:30	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 10:30	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 10:30	1
Isobutanol	<17.1	U *+	50.0	17.1	ug/L			11/16/23 10:30	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 10:30	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 10:30	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 10:30	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 10:30	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 10:30	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 10:30	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 10:30	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 10:30	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 10:30	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 10:30	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 10:30	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 10:30	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 10:30	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 10:30	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 10:30	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 10:30	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 10:30	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 10:30	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 10:30	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 10:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		11/16/23 10:30	1
4-Bromofluorobenzene (Surr)	95		74 - 124		11/16/23 10:30	1
Dibromofluoromethane (Surr)	101		75 - 131		11/16/23 10:30	1
Toluene-d8 (Surr)	99		80 - 120		11/16/23 10:30	1

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Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
400-246362-A-5 MS	Matrix Spike	99	99	102	101
400-246362-A-5 MSD	Matrix Spike Duplicate	100	96	104	98
860-61115-C-1 MS	Matrix Spike	93	97	99	98
860-61298-A-1 MS	Matrix Spike	100	95	102	99
860-61601-1	MW-65	102	100	102	99
860-61601-2	MW-70	100	100	102	99
860-61601-3	MW-71	102	97	102	100
860-61601-4	MW-72	103	95	103	98
860-61601-5	MW-68	103	95	105	98
860-61601-5 - RA	MW-68	114	112	106	102
860-61601-5 MS	MW-68	103	103	105	105
860-61601-6	MW-67	99	94	102	99
860-61601-7	RB-03	103	96	101	101
860-61601-8	MW-69	104	99	102	101
860-61601-9	FB-03	102	94	101	101
860-61601-10	MW-66	104	94	102	99
860-61601-11	MW-64	102	96	102	100
860-61601-12	DUPE-03	103	101	100	102
860-61601-13	TB-08 (111323)	103	95	101	99
LCS 860-131293/3	Lab Control Sample	99	97	101	101
LCS 860-131391/3	Lab Control Sample	95	98	101	97
LCS 860-131517/3	Lab Control Sample	100	95	105	98
LCS 860-131724/3	Lab Control Sample	101	116	106	101
LCSD 860-131293/4	Lab Control Sample Dup	100	96	102	99
LCSD 860-131391/4	Lab Control Sample Dup	93	98	102	97
LCSD 860-131517/4	Lab Control Sample Dup	100	97	106	99
LCSD 860-131724/4	Lab Control Sample Dup	96	113	105	100
MB 860-131293/9	Method Blank	103	95	103	98
MB 860-131391/9	Method Blank	100	98	100	99
MB 860-131517/10	Method Blank	104	99	105	100
MB 860-131724/11	Method Blank	105	112	107	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	2FP (19-120)	FBP (43-130)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-61601-1	MW-65				79		
860-61601-2	MW-70				80		
860-61601-3	MW-71				91		
860-61601-4	MW-72				76		
860-61601-5	MW-68				82		
860-61601-6	MW-67				84		

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Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	2FP (19-120)	FBP (43-130)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-61601-7	RB-03				86		
860-61601-8	MW-69				84		
860-61601-10	MW-66				73		
860-61601-11	MW-64				90		
860-61601-12	DUPE-03				95		
LCS 860-131401/2-A	Lab Control Sample	69	49	88	95	35	85
LCSD 860-131401/3-A	Lab Control Sample Dup	68	46	93	87	29	87
MB 860-131401/1-A	Method Blank	64	47	79	118	33	80

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

2FP = 2-Fluorophenol (Surr)

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (31-132)	FBP (40-130)	2FP (21-114)	NBZ (37-130)	PHL (16-117)	TPHd14 (20-141)
860-61549-B-2-B MS	Matrix Spike	65	62	41	59	33	84
860-61549-B-2-C MSD	Matrix Spike Duplicate	76	72	40	58	31	96
860-61601-1	MW-65	80	55	29	37	21	104
860-61601-2	MW-70	52	52	33	54	27	96
860-61601-3	MW-71	59	61	31	45	18	91
860-61601-4	MW-72	54	59	42	47	30	88
860-61601-5	MW-68	21 S1-	62	37	69	39	94
860-61601-6	MW-67	57	64	39	58	41	62
860-61601-7	RB-03	53	58	36	50	21	74
860-61601-8	MW-69	72	61	38	51	24	101
860-61601-10	MW-66	70	52	9 S1-	65	52	103
860-61601-10 - DL	MW-66	63	65	68	90	66	116
860-61601-11	MW-64	50	60	36	70	59	95
860-61601-12	DUPE-03	75	55	9 S1-	59	60	100
860-61601-12 - DL	DUPE-03	53	63	38	73	73	104
LCS 860-131552/2-A	Lab Control Sample	96	88	66	90	51	105
LCSD 860-131552/3-A	Lab Control Sample Dup	104	88	65	91	51	106
MB 860-131552/1-A	Method Blank	37	41	27	41	19	74

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-131293/9

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 09:49	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 09:49	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 09:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 09:49	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 09:49	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 09:49	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 09:49	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 09:49	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 09:49	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 09:49	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 09:49	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 09:49	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 09:49	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 09:49	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 09:49	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 09:49	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 09:49	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 09:49	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/16/23 09:49	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 09:49	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 09:49	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 09:49	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 09:49	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 09:49	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 09:49	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 09:49	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 09:49	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 09:49	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 09:49	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 09:49	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 09:49	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 09:49	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 09:49	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 09:49	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 09:49	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 09:49	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 09:49	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 09:49	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 09:49	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 09:49	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 09:49	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 09:49	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 09:49	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 09:49	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 09:49	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 09:49	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 09:49	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 09:49	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131293/9

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/16/23 09:49	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 09:49	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 09:49	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 09:49	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 09:49	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 09:49	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 09:49	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 09:49	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 09:49	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 09:49	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 09:49	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 09:49	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 09:49	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 09:49	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 09:49	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 09:49	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 09:49	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 09:49	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 09:49	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 09:49	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 09:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		11/16/23 09:49	1
4-Bromofluorobenzene (Surr)	95		74 - 124		11/16/23 09:49	1
Dibromofluoromethane (Surr)	103		75 - 131		11/16/23 09:49	1
Toluene-d8 (Surr)	98		80 - 120		11/16/23 09:49	1

Lab Sample ID: LCS 860-131293/3

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	48.65		ug/L		97	72 - 125
1,1,1-Trichloroethane	50.0	47.19		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.54		ug/L		103	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.08		ug/L		94	60 - 140
1,1,2-Trichloroethane	50.0	49.74		ug/L		99	70 - 130
1,1-Dichloroethane	50.0	47.86		ug/L		96	70 - 130
1,1-Dichloroethene	50.0	45.77		ug/L		92	50 - 150
1,2,3-Trichloropropane	50.0	50.38		ug/L		101	75 - 125
1,2,4-Trimethylbenzene	50.0	48.28		ug/L		97	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	52.71		ug/L		105	59 - 125
1,2-Dibromoethane	50.0	51.07		ug/L		102	73 - 125
1,2-Dichloroethane	50.0	50.86		ug/L		102	72 - 130
1,2-Dichloropropane	50.0	48.78		ug/L		98	74 - 125
1,3,5-Trimethylbenzene	50.0	48.09		ug/L		96	60 - 140
1,3-Butadiene	50.0	43.04		ug/L		86	60 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131293/3

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	47.45		ug/L		95	70 - 130
2-Butanone (MEK)	250	281.2		ug/L		112	60 - 140
2-Hexanone (MBK)	250	277.1		ug/L		111	60 - 140
2-Propanol	500	804.8	*+	ug/L		161	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	46.57		ug/L		93	70 - 130
4-Methyl-2-pentanone	250	272.1		ug/L		109	60 - 140
Acetone	250	258.1		ug/L		103	60 - 140
Acetonitrile	500	567.3		ug/L		113	60 - 140
Acrolein	250	254.0		ug/L		102	60 - 140
Acrylonitrile	500	523.3		ug/L		105	60 - 140
alpha-Chlorotoluene	50.0	47.84		ug/L		96	75 - 125
Benzene	50.0	48.36		ug/L		97	75 - 125
Bromodichloromethane	50.0	48.92		ug/L		98	75 - 125
Bromoform	50.0	48.74		ug/L		97	70 - 130
Bromomethane	50.0	51.30		ug/L		103	60 - 140
Carbon disulfide	50.0	40.39		ug/L		81	60 - 140
Carbon tetrachloride	50.0	46.97		ug/L		94	70 - 130
Chlorobenzene	50.0	49.07		ug/L		98	65 - 135
Chlorodibromomethane	50.0	48.48		ug/L		97	73 - 125
Chloroethane	50.0	48.35		ug/L		97	60 - 140
Chloroform	50.0	48.87		ug/L		98	70 - 121
Chloromethane	50.0	41.85		ug/L		84	60 - 140
Chloroprene	50.0	47.33		ug/L		95	70 - 130
cis-1,2-Dichloroethene	50.0	47.10		ug/L		94	75 - 125
cis-1,3-Dichloropropene	50.0	48.14		ug/L		96	74 - 125
Cumene (isopropylbenzene)	50.0	49.23		ug/L		98	75 - 125
Cyclohexane	50.0	45.90		ug/L		92	70 - 130
Dibromomethane	50.0	50.72		ug/L		101	69 - 127
Dichlorodifluoromethane	50.0	37.27		ug/L		75	50 - 150
Ethyl methacrylate	50.0	50.25		ug/L		101	70 - 130
Ethylbenzene	50.0	49.31		ug/L		99	75 - 125
Hexane	50.0	43.20		ug/L		86	72 - 125
Iodomethane	50.0	53.66		ug/L		107	75 - 125
Isobutanol	1240	1834	*+	ug/L		148	60 - 140
Methacrylonitrile	500	528.2		ug/L		106	70 - 130
Methyl methacrylate	100	102.8		ug/L		103	70 - 130
Methyl tert-butyl ether	50.0	48.93		ug/L		98	65 - 135
Methylene Chloride	50.0	47.98		ug/L		96	71 - 125
Propionitrile	500	579.5		ug/L		116	70 - 130
Propylbenzene	50.0	48.63		ug/L		97	75 - 125
Styrene	50.0	49.45		ug/L		99	75 - 125
Tetrachloroethene	50.0	48.57		ug/L		97	71 - 125
Tetrahydrofuran	100	108.8		ug/L		109	75 - 125
Toluene	50.0	48.23		ug/L		96	70 - 130
trans-1,2-Dichloroethene	50.0	47.42		ug/L		95	75 - 125
trans-1,3-Dichloropropene	50.0	47.99		ug/L		96	66 - 125
trans-1,4-Dichloro-2-butene	50.0	50.95		ug/L		102	70 - 130
Trichloroethene	50.0	49.12		ug/L		98	75 - 135
Trichlorofluoromethane	50.0	50.30		ug/L		101	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131293/3

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	249.2		ug/L		100	60 - 140
Vinyl chloride	50.0	43.06		ug/L		86	60 - 140
Xylenes, Total	100	98.26		ug/L		98	75 - 125
m,p-Xylenes	0.0500	0.04913		mg/L		98	75 - 125
o-Xylene	0.0500	0.04913		mg/L		98	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LCSD 860-131293/4

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	45.53		ug/L		91	72 - 125	7	25
1,1,1-Trichloroethane	50.0	44.51		ug/L		89	70 - 130	6	25
1,1,2,2-Tetrachloroethane	50.0	48.34		ug/L		97	74 - 125	6	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.54		ug/L		89	60 - 140	6	25
1,1,2-Trichloroethane	50.0	46.98		ug/L		94	70 - 130	6	25
1,1-Dichloroethane	50.0	45.57		ug/L		91	70 - 130	5	25
1,1-Dichloroethene	50.0	43.40		ug/L		87	50 - 150	5	25
1,2,3-Trichloropropane	50.0	46.81		ug/L		94	75 - 125	7	25
1,2,4-Trimethylbenzene	50.0	45.33		ug/L		91	75 - 125	6	25
1,2-Dibromo-3-Chloropropane	50.0	48.60		ug/L		97	59 - 125	8	25
1,2-Dibromoethane	50.0	48.14		ug/L		96	73 - 125	6	25
1,2-Dichloroethane	50.0	48.61		ug/L		97	72 - 130	5	25
1,2-Dichloropropane	50.0	46.32		ug/L		93	74 - 125	5	25
1,3,5-Trimethylbenzene	50.0	45.23		ug/L		90	60 - 140	6	25
1,3-Butadiene	50.0	41.77		ug/L		84	60 - 150	3	25
2,2,4-Trimethylpentane	50.0	45.79		ug/L		92	70 - 130	4	25
2-Butanone (MEK)	250	269.8		ug/L		108	60 - 140	4	25
2-Hexanone (MBK)	250	256.5		ug/L		103	60 - 140	8	25
2-Propanol	500	781.4	*+	ug/L		156	70 - 120	3	25
3-Chloropropene (Allyl Chloride)	50.0	42.73		ug/L		85	70 - 130	9	25
4-Methyl-2-pentanone	250	257.4		ug/L		103	60 - 140	6	25
Acetone	250	250.1		ug/L		100	60 - 140	3	25
Acetonitrile	500	549.4		ug/L		110	60 - 140	3	25
Acrolein	250	246.6		ug/L		99	60 - 140	3	25
Acrylonitrile	500	505.3		ug/L		101	60 - 140	4	25
alpha-Chlorotoluene	50.0	43.07		ug/L		86	75 - 125	11	25
Benzene	50.0	45.63		ug/L		91	75 - 125	6	25
Bromodichloromethane	50.0	46.81		ug/L		94	75 - 125	4	25
Bromoform	50.0	46.51		ug/L		93	70 - 130	5	25
Bromomethane	50.0	46.44		ug/L		93	60 - 140	10	25
Carbon disulfide	50.0	38.27		ug/L		77	60 - 140	5	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131293/4

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	44.35		ug/L		89	70 - 130	6	25
Chlorobenzene	50.0	45.75		ug/L		91	65 - 135	7	25
Chlorodibromomethane	50.0	46.02		ug/L		92	73 - 125	5	25
Chloroethane	50.0	44.98		ug/L		90	60 - 140	7	25
Chloroform	50.0	46.45		ug/L		93	70 - 121	5	25
Chloromethane	50.0	40.50		ug/L		81	60 - 140	3	25
Chloroprene	50.0	45.83		ug/L		92	70 - 130	3	25
cis-1,2-Dichloroethene	50.0	44.67		ug/L		89	75 - 125	5	25
cis-1,3-Dichloropropene	50.0	46.55		ug/L		93	74 - 125	3	25
Cumene (isopropylbenzene)	50.0	46.28		ug/L		93	75 - 125	6	25
Cyclohexane	50.0	43.92		ug/L		88	70 - 130	4	25
Dibromomethane	50.0	48.69		ug/L		97	69 - 127	4	25
Dichlorodifluoromethane	50.0	34.62		ug/L		69	50 - 150	7	25
Ethyl methacrylate	50.0	47.52		ug/L		95	70 - 130	6	25
Ethylbenzene	50.0	45.80		ug/L		92	75 - 125	7	25
Hexane	50.0	42.21		ug/L		84	72 - 125	2	25
Iodomethane	50.0	51.46		ug/L		103	75 - 125	4	25
Isobutanol	1240	1790	*+	ug/L		144	60 - 140	2	25
Methacrylonitrile	500	502.8		ug/L		101	70 - 130	5	25
Methyl methacrylate	100	99.21		ug/L		99	70 - 130	4	25
Methyl tert-butyl ether	50.0	47.28		ug/L		95	65 - 135	3	25
Methylene Chloride	50.0	45.67		ug/L		91	71 - 125	5	25
Propionitrile	500	570.5		ug/L		114	70 - 130	2	25
Propylbenzene	50.0	45.42		ug/L		91	75 - 125	7	25
Styrene	50.0	46.72		ug/L		93	75 - 125	6	25
Tetrachloroethene	50.0	45.36		ug/L		91	71 - 125	7	25
Tetrahydrofuran	100	101.3		ug/L		101	75 - 125	7	25
Toluene	50.0	45.02		ug/L		90	70 - 130	7	25
trans-1,2-Dichloroethene	50.0	45.14		ug/L		90	75 - 125	5	25
trans-1,3-Dichloropropene	50.0	45.36		ug/L		91	66 - 125	6	25
trans-1,4-Dichloro-2-butene	50.0	45.96		ug/L		92	70 - 130	10	25
Trichloroethene	50.0	46.26		ug/L		93	75 - 135	6	25
Trichlorofluoromethane	50.0	48.16		ug/L		96	60 - 140	4	25
Vinyl acetate	250	237.3		ug/L		95	60 - 140	5	25
Vinyl chloride	50.0	41.27		ug/L		83	60 - 140	4	25
Xylenes, Total	100	91.58		ug/L		92	75 - 125	7	25
m,p-Xylenes	0.0500	0.04559		mg/L		91	75 - 125	7	25
o-Xylene	0.0500	0.04599		mg/L		92	75 - 125	7	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	99		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61298-A-1 MS

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	46.07		ug/L		92	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	46.64		ug/L		93	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	48.59		ug/L		97	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	47.62		ug/L		95	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	46.98		ug/L		94	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	47.78		ug/L		96	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	47.04		ug/L		94	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	44.66		ug/L		89	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	46.37		ug/L		93	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	46.63		ug/L		93	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	47.86		ug/L		96	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	48.09		ug/L		96	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	47.08		ug/L		94	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	45.42		ug/L		91	70 - 125
1,3-Butadiene	<0.568	U	50.0	48.53		ug/L		97	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	46.71		ug/L		93	70 - 130
2-Butanone (MEK)	<8.28	U	250	246.9		ug/L		99	60 - 140
2-Hexanone (MBK)	<7.45	U	250	246.5		ug/L		99	60 - 140
2-Propanol	<5.23	U *+ F1	500	754.4	F1	ug/L		151	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	51.42		ug/L		103	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	246.1		ug/L		98	60 - 140
Acetone	<3.07	U	250	226.7		ug/L		91	60 - 140
Acetonitrile	<14.6	U	500	522.0		ug/L		104	60 - 140
Acrolein	<11.1	U	250	234.2		ug/L		94	50 - 150
Acrylonitrile	<14.3	U	500	481.4		ug/L		96	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	39.58		ug/L		79	70 - 130
Benzene	<0.460	U	50.0	47.32		ug/L		95	66 - 142
Bromodichloromethane	<0.552	U	50.0	46.78		ug/L		94	75 - 125
Bromoform	<0.633	U	50.0	45.33		ug/L		91	75 - 125
Bromomethane	<1.42	U	50.0	49.40		ug/L		99	60 - 140
Carbon disulfide	<1.65	U	50.0	44.79		ug/L		90	60 - 140
Carbon tetrachloride	<0.896	U	50.0	46.52		ug/L		93	62 - 125
Chlorobenzene	<0.455	U	50.0	47.43		ug/L		95	60 - 133
Chlorodibromomethane	<0.547	U	50.0	46.15		ug/L		92	73 - 125
Chloroethane	<1.98	U	50.0	48.72		ug/L		97	60 - 140
Chloroform	<0.464	U	50.0	47.30		ug/L		95	70 - 130
Chloromethane	<2.04	U	50.0	47.57		ug/L		95	60 - 140
Chloroprene	<0.598	U	50.0	47.81		ug/L		96	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	46.05		ug/L		92	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	46.45		ug/L		93	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	47.44		ug/L		95	75 - 125
Cyclohexane	<1.29	U	50.0	46.15		ug/L		92	70 - 130
Dibromomethane	<0.357	U	50.0	48.01		ug/L		96	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	47.14		ug/L		94	70 - 130
Ethyl methacrylate	<1.12	U	50.0	47.07		ug/L		94	70 - 130
Ethylbenzene	<0.385	U	50.0	47.20		ug/L		94	75 - 125
Hexane	<0.517	U	50.0	45.05		ug/L		90	72 - 125
Iodomethane	<6.52	U	50.0	60.67		ug/L		121	75 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61298-A-1 MS

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Isobutanol	<17.1	U *+	1240	1623		ug/L		131	60 - 140
Methacrylonitrile	<2.72	U	500	483.5		ug/L		97	70 - 130
Methyl methacrylate	<2.25	U	100	95.38		ug/L		95	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	46.23		ug/L		92	65 - 135
Methylene Chloride	<1.73	U	50.0	46.72		ug/L		93	75 - 125
Propionitrile	<3.34	U	500	534.2		ug/L		107	70 - 130
Propylbenzene	<0.429	U	50.0	46.35		ug/L		93	75 - 125
Styrene	<0.619	U	50.0	47.13		ug/L		94	75 - 125
Tetrachloroethene	<0.655	U	50.0	47.96		ug/L		96	71 - 125
Tetrahydrofuran	<1.83	U	100	97.66		ug/L		98	75 - 125
Toluene	<0.475	U	50.0	45.97		ug/L		92	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	46.90		ug/L		94	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	46.16		ug/L		92	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	42.85		ug/L		86	70 - 130
Trichloroethene	<1.50	U	50.0	46.60		ug/L		93	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	51.42		ug/L		103	60 - 140
Vinyl acetate	<2.14	U	250	241.3		ug/L		97	60 - 140
Vinyl chloride	<0.428	U	50.0	48.23		ug/L		96	60 - 140
Xylenes, Total	<1.24	U	100	94.53		ug/L		95	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.04743		mg/L		95	75 - 125
o-Xylene	<0.000502	U	0.0500	0.04710		mg/L		94	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	95		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: MB 860-131391/9

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 17:27	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 17:27	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 17:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 17:27	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 17:27	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 17:27	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 17:27	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 17:27	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 17:27	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 17:27	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 17:27	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 17:27	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 17:27	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 17:27	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 17:27	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131391/9

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 17:27	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 17:27	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 17:27	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/16/23 17:27	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 17:27	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 17:27	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 17:27	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 17:27	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 17:27	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 17:27	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 17:27	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 17:27	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 17:27	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 17:27	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 17:27	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 17:27	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 17:27	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 17:27	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 17:27	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 17:27	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 17:27	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 17:27	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 17:27	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 17:27	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 17:27	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 17:27	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 17:27	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 17:27	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 17:27	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 17:27	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 17:27	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 17:27	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 17:27	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/16/23 17:27	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 17:27	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 17:27	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 17:27	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 17:27	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 17:27	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 17:27	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 17:27	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 17:27	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 17:27	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 17:27	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 17:27	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 17:27	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 17:27	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 17:27	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 17:27	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131391/9

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 17:27	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 17:27	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 17:27	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 17:27	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 17:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		11/16/23 17:27	1
4-Bromofluorobenzene (Surr)	98		74 - 124		11/16/23 17:27	1
Dibromofluoromethane (Surr)	100		75 - 131		11/16/23 17:27	1
Toluene-d8 (Surr)	99		80 - 120		11/16/23 17:27	1

Lab Sample ID: LCS 860-131391/3

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	49.00		ug/L		98	72 - 125
1,1,1-Trichloroethane	50.0	46.38		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.88		ug/L		100	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.91		ug/L		100	60 - 140
1,1,2-Trichloroethane	50.0	49.94		ug/L		100	70 - 130
1,1-Dichloroethane	50.0	45.44		ug/L		91	70 - 130
1,1-Dichloroethene	50.0	45.19		ug/L		90	50 - 150
1,2,3-Trichloropropane	50.0	47.54		ug/L		95	75 - 125
1,2,4-Trimethylbenzene	50.0	48.24		ug/L		96	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	54.96		ug/L		110	59 - 125
1,2-Dibromoethane	50.0	50.35		ug/L		101	73 - 125
1,2-Dichloroethane	50.0	48.92		ug/L		98	72 - 130
1,2-Dichloropropane	50.0	48.76		ug/L		98	74 - 125
1,3,5-Trimethylbenzene	50.0	48.60		ug/L		97	60 - 140
1,3-Butadiene	50.0	44.12		ug/L		88	60 - 150
2,2,4-Trimethylpentane	50.0	45.76		ug/L		92	70 - 130
2-Butanone (MEK)	250	245.9		ug/L		98	60 - 140
2-Hexanone (MBK)	250	233.0		ug/L		93	60 - 140
2-Propanol	500	443.3		ug/L		89	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	42.52		ug/L		85	70 - 130
4-Methyl-2-pentanone	250	239.0		ug/L		96	60 - 140
Acetone	250	235.6		ug/L		94	60 - 140
Acetonitrile	500	426.8		ug/L		85	60 - 140
Acrolein	250	216.0		ug/L		86	60 - 140
Acrylonitrile	500	485.3		ug/L		97	60 - 140
alpha-Chlorotoluene	50.0	44.94		ug/L		90	75 - 125
Benzene	50.0	47.76		ug/L		96	75 - 125
Bromodichloromethane	50.0	49.10		ug/L		98	75 - 125
Bromoform	50.0	50.25		ug/L		100	70 - 130
Bromomethane	50.0	50.18		ug/L		100	60 - 140
Carbon disulfide	50.0	42.18		ug/L		84	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131391/3

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	50.0	45.59		ug/L		91	70 - 130
Chlorobenzene	50.0	48.60		ug/L		97	65 - 135
Chlorodibromomethane	50.0	49.28		ug/L		99	73 - 125
Chloroethane	50.0	41.91		ug/L		84	60 - 140
Chloroform	50.0	48.58		ug/L		97	70 - 121
Chloromethane	50.0	43.40		ug/L		87	60 - 140
Chloroprene	50.0	44.81		ug/L		90	70 - 130
cis-1,2-Dichloroethene	50.0	46.94		ug/L		94	75 - 125
cis-1,3-Dichloropropene	50.0	48.63		ug/L		97	74 - 125
Cumene (isopropylbenzene)	50.0	47.49		ug/L		95	75 - 125
Cyclohexane	50.0	44.27		ug/L		89	70 - 130
Dibromomethane	50.0	51.58		ug/L		103	69 - 127
Dichlorodifluoromethane	50.0	42.81		ug/L		86	50 - 150
Ethyl methacrylate	50.0	47.69		ug/L		95	70 - 130
Ethylbenzene	50.0	47.27		ug/L		95	75 - 125
Hexane	50.0	43.39		ug/L		87	72 - 125
Iodomethane	50.0	55.84		ug/L		112	75 - 125
Isobutanol	1240	1186		ug/L		96	60 - 140
Methacrylonitrile	500	495.0		ug/L		99	70 - 130
Methyl methacrylate	100	98.24		ug/L		98	70 - 130
Methyl tert-butyl ether	50.0	47.67		ug/L		95	65 - 135
Methylene Chloride	50.0	47.77		ug/L		96	71 - 125
Propionitrile	500	492.8		ug/L		99	70 - 130
Propylbenzene	50.0	48.54		ug/L		97	75 - 125
Styrene	50.0	48.11		ug/L		96	75 - 125
Tetrachloroethene	50.0	48.59		ug/L		97	71 - 125
Tetrahydrofuran	100	98.10		ug/L		98	75 - 125
Toluene	50.0	47.08		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	48.81		ug/L		98	75 - 125
trans-1,3-Dichloropropene	50.0	46.67		ug/L		93	66 - 125
trans-1,4-Dichloro-2-butene	50.0	47.64		ug/L		95	70 - 130
Trichloroethene	50.0	51.18		ug/L		102	75 - 135
Trichlorofluoromethane	50.0	50.08		ug/L		100	60 - 140
Vinyl acetate	250	205.5		ug/L		82	60 - 140
Vinyl chloride	50.0	46.14		ug/L		92	60 - 140
Xylenes, Total	100	93.32		ug/L		93	75 - 125
m,p-Xylenes	0.0500	0.04670		mg/L		93	75 - 125
o-Xylene	0.0500	0.04662		mg/L		93	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	97		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131391/4

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	46.78		ug/L		94	72 - 125	5	25
1,1,1-Trichloroethane	50.0	44.75		ug/L		89	70 - 130	4	25
1,1,2,2-Tetrachloroethane	50.0	48.68		ug/L		97	74 - 125	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.26		ug/L		103	60 - 140	3	25
1,1,2-Trichloroethane	50.0	48.40		ug/L		97	70 - 130	3	25
1,1-Dichloroethane	50.0	45.62		ug/L		91	70 - 130	0	25
1,1-Dichloroethene	50.0	43.45		ug/L		87	50 - 150	4	25
1,2,3-Trichloropropane	50.0	48.45		ug/L		97	75 - 125	2	25
1,2,4-Trimethylbenzene	50.0	45.56		ug/L		91	75 - 125	6	25
1,2-Dibromo-3-Chloropropane	50.0	52.02		ug/L		104	59 - 125	5	25
1,2-Dibromoethane	50.0	49.20		ug/L		98	73 - 125	2	25
1,2-Dichloroethane	50.0	46.77		ug/L		94	72 - 130	4	25
1,2-Dichloropropane	50.0	46.58		ug/L		93	74 - 125	5	25
1,3,5-Trimethylbenzene	50.0	45.60		ug/L		91	60 - 140	6	25
1,3-Butadiene	50.0	45.30		ug/L		91	60 - 150	3	25
2,2,4-Trimethylpentane	50.0	44.77		ug/L		90	70 - 130	2	25
2-Butanone (MEK)	250	245.7		ug/L		98	60 - 140	0	25
2-Hexanone (MBK)	250	232.1		ug/L		93	60 - 140	0	25
2-Propanol	500	442.1		ug/L		88	70 - 120	0	25
3-Chloropropene (Allyl Chloride)	50.0	43.98		ug/L		88	70 - 130	3	25
4-Methyl-2-pentanone	250	235.6		ug/L		94	60 - 140	1	25
Acetone	250	236.5		ug/L		95	60 - 140	0	25
Acetonitrile	500	441.5		ug/L		88	60 - 140	3	25
Acrolein	250	219.9		ug/L		88	60 - 140	2	25
Acrylonitrile	500	478.3		ug/L		96	60 - 140	1	25
alpha-Chlorotoluene	50.0	46.36		ug/L		93	75 - 125	3	25
Benzene	50.0	45.21		ug/L		90	75 - 125	5	25
Bromodichloromethane	50.0	46.43		ug/L		93	75 - 125	6	25
Bromoform	50.0	48.61		ug/L		97	70 - 130	3	25
Bromomethane	50.0	49.87		ug/L		100	60 - 140	1	25
Carbon disulfide	50.0	40.73		ug/L		81	60 - 140	4	25
Carbon tetrachloride	50.0	44.64		ug/L		89	70 - 130	2	25
Chlorobenzene	50.0	46.29		ug/L		93	65 - 135	5	25
Chlorodibromomethane	50.0	47.63		ug/L		95	73 - 125	3	25
Chloroethane	50.0	41.20		ug/L		82	60 - 140	2	25
Chloroform	50.0	46.99		ug/L		94	70 - 121	3	25
Chloromethane	50.0	42.09		ug/L		84	60 - 140	3	25
Chloroprene	50.0	43.22		ug/L		86	70 - 130	4	25
cis-1,2-Dichloroethene	50.0	45.16		ug/L		90	75 - 125	4	25
cis-1,3-Dichloropropene	50.0	46.76		ug/L		94	74 - 125	4	25
Cumene (isopropylbenzene)	50.0	45.25		ug/L		90	75 - 125	5	25
Cyclohexane	50.0	43.75		ug/L		87	70 - 130	1	25
Dibromomethane	50.0	50.47		ug/L		101	69 - 127	2	25
Dichlorodifluoromethane	50.0	43.24		ug/L		86	50 - 150	1	25
Ethyl methacrylate	50.0	46.62		ug/L		93	70 - 130	2	25
Ethylbenzene	50.0	45.12		ug/L		90	75 - 125	5	25
Hexane	50.0	44.79		ug/L		90	72 - 125	3	25
Iodomethane	50.0	53.05		ug/L		106	75 - 125	5	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131391/4

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isobutanol	1240	1170		ug/L		94	60 - 140	1	25
Methacrylonitrile	500	491.9		ug/L		98	70 - 130	1	25
Methyl methacrylate	100	95.76		ug/L		96	70 - 130	3	25
Methyl tert-butyl ether	50.0	45.42		ug/L		91	65 - 135	5	25
Methylene Chloride	50.0	45.98		ug/L		92	71 - 125	4	25
Propionitrile	500	490.0		ug/L		98	70 - 130	1	25
Propylbenzene	50.0	45.81		ug/L		92	75 - 125	6	25
Styrene	50.0	46.18		ug/L		92	75 - 125	4	25
Tetrachloroethene	50.0	47.11		ug/L		94	71 - 125	3	25
Tetrahydrofuran	100	95.55		ug/L		96	75 - 125	3	25
Toluene	50.0	45.42		ug/L		91	70 - 130	4	25
trans-1,2-Dichloroethene	50.0	45.79		ug/L		92	75 - 125	6	25
trans-1,3-Dichloropropene	50.0	45.61		ug/L		91	66 - 125	2	25
trans-1,4-Dichloro-2-butene	50.0	46.62		ug/L		93	70 - 130	2	25
Trichloroethene	50.0	48.33		ug/L		97	75 - 135	6	25
Trichlorofluoromethane	50.0	51.69		ug/L		103	60 - 140	3	25
Vinyl acetate	250	225.8		ug/L		90	60 - 140	9	25
Vinyl chloride	50.0	45.62		ug/L		91	60 - 140	1	25
Xylenes, Total	100	89.53		ug/L		90	75 - 125	4	25
m,p-Xylenes	0.0500	0.04499		mg/L		90	75 - 125	4	25
o-Xylene	0.0500	0.04454		mg/L		89	75 - 125	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: 860-61115-C-1 MS

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	43.11		ug/L		86	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	41.68		ug/L		83	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	44.76		ug/L		90	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	48.69		ug/L		97	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	44.09		ug/L		88	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	42.60		ug/L		85	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	43.40		ug/L		87	59 - 172
1,2,3-Trichloropropane	1.60		50.0	42.90		ug/L		83	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	42.27		ug/L		85	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	47.85		ug/L		96	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	45.35		ug/L		91	73 - 125
1,2-Dichloroethane	1.07		50.0	44.19		ug/L		86	68 - 127
1,2-Dichloropropane	4.29	J	50.0	47.45		ug/L		86	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	42.30		ug/L		85	70 - 125
1,3-Butadiene	<0.568	U	50.0	46.05		ug/L		92	70 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61115-C-1 MS

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	<0.500	U	50.0	40.85		ug/L		82	70 - 130
2-Butanone (MEK)	<8.28	U	250	232.3		ug/L		93	60 - 140
2-Hexanone (MBK)	<7.45	U	250	228.5		ug/L		91	60 - 140
2-Propanol	<5.23	U	500	390.2		ug/L		78	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	40.34		ug/L		81	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	230.8		ug/L		92	60 - 140
Acetone	<3.07	U	250	213.8		ug/L		86	60 - 140
Acetonitrile	<14.6	U	500	404.9		ug/L		81	60 - 140
Acrolein	<11.1	U	250	145.9		ug/L		58	50 - 150
Acrylonitrile	<14.3	U	500	417.0		ug/L		83	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	41.97		ug/L		84	70 - 130
Benzene	0.466	J	50.0	42.63		ug/L		84	66 - 142
Bromodichloromethane	<0.552	U	50.0	42.79		ug/L		86	75 - 125
Bromoform	<0.633	U	50.0	43.94		ug/L		88	75 - 125
Bromomethane	<1.42	U	50.0	48.56		ug/L		97	60 - 140
Carbon disulfide	<1.65	U	50.0	41.67		ug/L		83	60 - 140
Carbon tetrachloride	<0.896	U	50.0	38.41		ug/L		77	62 - 125
Chlorobenzene	1.19		50.0	44.75		ug/L		87	60 - 133
Chlorodibromomethane	<0.547	U	50.0	44.12		ug/L		88	73 - 125
Chloroethane	<1.98	U	50.0	40.11		ug/L		80	60 - 140
Chloroform	2.65		50.0	45.33		ug/L		85	70 - 130
Chloromethane	<2.04	U	50.0	43.72		ug/L		87	60 - 140
Chloroprene	<0.598	U	50.0	39.50		ug/L		79	70 - 130
cis-1,2-Dichloroethene	1.89		50.0	43.58		ug/L		83	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	42.98		ug/L		86	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	42.01		ug/L		84	75 - 125
Cyclohexane	<1.29	U	50.0	42.62		ug/L		85	70 - 130
Dibromomethane	<0.357	U	50.0	45.93		ug/L		92	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	54.24		ug/L		108	70 - 130
Ethyl methacrylate	<1.12	U	50.0	42.59		ug/L		85	70 - 130
Ethylbenzene	<0.385	U	50.0	42.21		ug/L		84	75 - 125
Hexane	<0.517	U	50.0	44.43		ug/L		89	72 - 125
Iodomethane	<6.52	U	50.0	51.40		ug/L		103	75 - 125
Isobutanol	<17.1	U	1240	1025		ug/L		83	60 - 140
Methacrylonitrile	<2.72	U	500	427.0		ug/L		85	70 - 130
Methyl methacrylate	<2.25	U	100	86.21		ug/L		86	70 - 130
Methyl tert-butyl ether	2.62	J	50.0	43.48		ug/L		82	65 - 135
Methylene Chloride	<1.73	U	50.0	42.11		ug/L		84	75 - 125
Propionitrile	<3.34	U	500	415.7		ug/L		83	70 - 130
Propylbenzene	<0.429	U	50.0	43.53		ug/L		87	75 - 125
Styrene	<0.619	U	50.0	41.65		ug/L		83	75 - 125
Tetrachloroethene	<0.655	U	50.0	43.78		ug/L		88	71 - 125
Tetrahydrofuran	<1.83	U	100	86.30		ug/L		86	75 - 125
Toluene	0.864	J	50.0	43.18		ug/L		85	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	43.21		ug/L		86	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	42.13		ug/L		84	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	41.57		ug/L		83	70 - 130
Trichloroethene	<1.50	U	50.0	45.74		ug/L		91	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	50.79		ug/L		102	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61115-C-1 MS

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	<2.14	U	250	226.5		ug/L		91	60 - 140
Vinyl chloride	13.9		50.0	62.02		ug/L		96	60 - 140
Xylenes, Total	<1.24	U	100	84.41		ug/L		84	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.04243		mg/L		85	75 - 125
o-Xylene	<0.000502	U	0.0500	0.04198		mg/L		84	75 - 125

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: MB 860-131517/10

Matrix: Water

Analysis Batch: 131517

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/17/23 09:53	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/17/23 09:53	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/17/23 09:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/17/23 09:53	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/17/23 09:53	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/17/23 09:53	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/17/23 09:53	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/17/23 09:53	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/17/23 09:53	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/17/23 09:53	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/17/23 09:53	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/17/23 09:53	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/17/23 09:53	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/17/23 09:53	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/17/23 09:53	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/17/23 09:53	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/17/23 09:53	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/17/23 09:53	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/17/23 09:53	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/17/23 09:53	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/17/23 09:53	1
Acetone	<3.07	U	100	3.07	ug/L			11/17/23 09:53	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/17/23 09:53	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/17/23 09:53	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/17/23 09:53	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/17/23 09:53	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/17/23 09:53	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/17/23 09:53	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/17/23 09:53	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/17/23 09:53	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/17/23 09:53	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131517/10

Matrix: Water

Analysis Batch: 131517

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/17/23 09:53	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/17/23 09:53	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/17/23 09:53	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/17/23 09:53	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/17/23 09:53	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/17/23 09:53	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/17/23 09:53	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/17/23 09:53	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/17/23 09:53	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/17/23 09:53	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/17/23 09:53	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/17/23 09:53	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/17/23 09:53	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/17/23 09:53	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/17/23 09:53	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/17/23 09:53	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/17/23 09:53	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/17/23 09:53	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/17/23 09:53	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/17/23 09:53	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/17/23 09:53	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/17/23 09:53	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/17/23 09:53	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/17/23 09:53	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/17/23 09:53	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/17/23 09:53	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/17/23 09:53	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/17/23 09:53	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/17/23 09:53	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/17/23 09:53	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/17/23 09:53	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/17/23 09:53	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/17/23 09:53	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/17/23 09:53	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/17/23 09:53	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/17/23 09:53	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/17/23 09:53	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/17/23 09:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		11/17/23 09:53	1
4-Bromofluorobenzene (Surr)	99		74 - 124		11/17/23 09:53	1
Dibromofluoromethane (Surr)	105		75 - 131		11/17/23 09:53	1
Toluene-d8 (Surr)	100		80 - 120		11/17/23 09:53	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131517/3

Matrix: Water

Analysis Batch: 131517

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	41.77		ug/L		84	72 - 125
1,1,1-Trichloroethane	50.0	42.86		ug/L		86	70 - 130
1,1,2,2-Tetrachloroethane	50.0	46.06		ug/L		92	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.58		ug/L		87	60 - 140
1,1,2-Trichloroethane	50.0	44.64		ug/L		89	70 - 130
1,1-Dichloroethane	50.0	44.86		ug/L		90	70 - 130
1,1-Dichloroethene	50.0	42.33		ug/L		85	50 - 150
1,2,3-Trichloropropane	50.0	43.07		ug/L		86	75 - 125
1,2,4-Trimethylbenzene	50.0	40.71		ug/L		81	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	43.24		ug/L		86	59 - 125
1,2-Dibromoethane	50.0	44.59		ug/L		89	73 - 125
1,2-Dichloroethane	50.0	46.97		ug/L		94	72 - 130
1,2-Dichloropropane	50.0	45.09		ug/L		90	74 - 125
1,3,5-Trimethylbenzene	50.0	40.07		ug/L		80	60 - 140
1,3-Butadiene	50.0	48.58		ug/L		97	60 - 150
2,2,4-Trimethylpentane	50.0	43.54		ug/L		87	70 - 130
2-Butanone (MEK)	250	260.6		ug/L		104	60 - 140
2-Hexanone (MBK)	250	239.5		ug/L		96	60 - 140
2-Propanol	500	706.8	+	ug/L		141	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	43.20		ug/L		86	70 - 130
4-Methyl-2-pentanone	250	249.4		ug/L		100	60 - 140
Acetone	250	236.8		ug/L		95	60 - 140
Acetonitrile	500	530.1		ug/L		106	60 - 140
Acrolein	250	214.5		ug/L		86	60 - 140
Acrylonitrile	500	497.3		ug/L		99	60 - 140
Benzene	50.0	44.12		ug/L		88	75 - 125
Bromodichloromethane	50.0	45.18		ug/L		90	75 - 125
Bromoform	50.0	42.08		ug/L		84	70 - 130
Bromomethane	50.0	45.83		ug/L		92	60 - 140
Carbon disulfide	50.0	39.94		ug/L		80	60 - 140
Carbon tetrachloride	50.0	42.26		ug/L		85	70 - 130
Chlorobenzene	50.0	42.45		ug/L		85	65 - 135
Chlorodibromomethane	50.0	42.73		ug/L		85	73 - 125
Chloroethane	50.0	49.46		ug/L		99	60 - 140
Chloroform	50.0	45.83		ug/L		92	70 - 121
Chloromethane	50.0	43.49		ug/L		87	60 - 140
Chloroprene	50.0	44.04		ug/L		88	70 - 130
cis-1,2-Dichloroethene	50.0	44.26		ug/L		89	75 - 125
cis-1,3-Dichloropropene	50.0	44.37		ug/L		89	74 - 125
Cumene (isopropylbenzene)	50.0	41.72		ug/L		83	75 - 125
Cyclohexane	50.0	43.14		ug/L		86	70 - 130
Dibromomethane	50.0	46.76		ug/L		94	69 - 127
Dichlorodifluoromethane	50.0	48.44		ug/L		97	50 - 150
Ethyl methacrylate	50.0	44.29		ug/L		89	70 - 130
Ethylbenzene	50.0	42.19		ug/L		84	75 - 125
Hexane	50.0	42.12		ug/L		84	72 - 125
Iodomethane	50.0	42.15		ug/L		84	75 - 125
Isobutanol	1240	1578		ug/L		127	60 - 140

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131517/3

Matrix: Water

Analysis Batch: 131517

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methacrylonitrile	500	503.4		ug/L		101	70 - 130
Methyl methacrylate	100	94.53		ug/L		95	70 - 130
Methyl tert-butyl ether	50.0	45.01		ug/L		90	65 - 135
Methylene Chloride	50.0	45.28		ug/L		91	71 - 125
Propionitrile	500	559.8		ug/L		112	70 - 130
Propylbenzene	50.0	40.37		ug/L		81	75 - 125
Styrene	50.0	43.08		ug/L		86	75 - 125
Tetrachloroethene	50.0	40.67		ug/L		81	71 - 125
Tetrahydrofuran	100	102.8		ug/L		103	75 - 125
Toluene	50.0	41.33		ug/L		83	70 - 130
trans-1,2-Dichloroethene	50.0	42.69		ug/L		85	75 - 125
trans-1,3-Dichloropropene	50.0	42.50		ug/L		85	66 - 125
trans-1,4-Dichloro-2-butene	50.0	41.02		ug/L		82	70 - 130
Trichloroethene	50.0	42.23		ug/L		84	75 - 135
Trichlorofluoromethane	50.0	49.94		ug/L		100	60 - 140
Vinyl acetate	250	241.4		ug/L		97	60 - 140
Vinyl chloride	50.0	46.22		ug/L		92	60 - 140
Xylenes, Total	100	83.85		ug/L		84	75 - 125
m,p-Xylenes	0.0500	0.04203		mg/L		84	75 - 125
o-Xylene	0.0500	0.04182		mg/L		84	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	95		74 - 124
Dibromofluoromethane (Surr)	105		75 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 860-131517/4

Matrix: Water

Analysis Batch: 131517

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	44.59		ug/L		89	72 - 125	7	25
1,1,1-Trichloroethane	50.0	45.39		ug/L		91	70 - 130	6	25
1,1,2,2-Tetrachloroethane	50.0	47.66		ug/L		95	74 - 125	3	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.43		ug/L		91	60 - 140	4	25
1,1,2-Trichloroethane	50.0	46.95		ug/L		94	70 - 130	5	25
1,1-Dichloroethane	50.0	46.80		ug/L		94	70 - 130	4	25
1,1-Dichloroethene	50.0	45.21		ug/L		90	50 - 150	7	25
1,2,3-Trichloropropane	50.0	44.50		ug/L		89	75 - 125	3	25
1,2,4-Trimethylbenzene	50.0	44.06		ug/L		88	75 - 125	8	25
1,2-Dibromo-3-Chloropropane	50.0	43.64		ug/L		87	59 - 125	1	25
1,2-Dibromoethane	50.0	46.99		ug/L		94	73 - 125	5	25
1,2-Dichloroethane	50.0	47.24		ug/L		94	72 - 130	1	25
1,2-Dichloropropane	50.0	46.81		ug/L		94	74 - 125	4	25
1,3,5-Trimethylbenzene	50.0	43.31		ug/L		87	60 - 140	8	25
1,3-Butadiene	50.0	49.34		ug/L		99	60 - 150	2	25
2,2,4-Trimethylpentane	50.0	44.93		ug/L		90	70 - 130	3	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131517/4

Matrix: Water

Analysis Batch: 131517

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)	250	256.2		ug/L		102	60 - 140	2	25
2-Hexanone (MBK)	250	242.7		ug/L		97	60 - 140	1	25
2-Propanol	500	690.9	*+	ug/L		138	70 - 120	2	25
3-Chloropropene (Allyl Chloride)	50.0	45.12		ug/L		90	70 - 130	4	25
4-Methyl-2-pentanone	250	244.8		ug/L		98	60 - 140	2	25
Acetone	250	237.6		ug/L		95	60 - 140	0	25
Acetonitrile	500	515.7		ug/L		103	60 - 140	3	25
Acrolein	250	223.3		ug/L		89	60 - 140	4	25
Acrylonitrile	500	494.4		ug/L		99	60 - 140	1	25
Benzene	50.0	46.13		ug/L		92	75 - 125	4	25
Bromodichloromethane	50.0	46.58		ug/L		93	75 - 125	3	25
Bromoform	50.0	43.89		ug/L		88	70 - 130	4	25
Bromomethane	50.0	45.75		ug/L		92	60 - 140	0	25
Carbon disulfide	50.0	42.79		ug/L		86	60 - 140	7	25
Carbon tetrachloride	50.0	44.92		ug/L		90	70 - 130	6	25
Chlorobenzene	50.0	45.21		ug/L		90	65 - 135	6	25
Chlorodibromomethane	50.0	45.15		ug/L		90	73 - 125	6	25
Chloroethane	50.0	50.42		ug/L		101	60 - 140	2	25
Chloroform	50.0	48.31		ug/L		97	70 - 121	5	25
Chloromethane	50.0	44.98		ug/L		90	60 - 140	3	25
Chloroprene	50.0	46.81		ug/L		94	70 - 130	6	25
cis-1,2-Dichloroethene	50.0	46.41		ug/L		93	75 - 125	5	25
cis-1,3-Dichloropropene	50.0	45.68		ug/L		91	74 - 125	3	25
Cumene (isopropylbenzene)	50.0	45.05		ug/L		90	75 - 125	8	25
Cyclohexane	50.0	45.64		ug/L		91	70 - 130	6	25
Dibromomethane	50.0	47.68		ug/L		95	69 - 127	2	25
Dichlorodifluoromethane	50.0	49.69		ug/L		99	50 - 150	3	25
Ethyl methacrylate	50.0	46.24		ug/L		92	70 - 130	4	25
Ethylbenzene	50.0	45.49		ug/L		91	75 - 125	8	25
Hexane	50.0	44.60		ug/L		89	72 - 125	6	25
Iodomethane	50.0	45.96		ug/L		92	75 - 125	9	25
Isobutanol	1240	1535		ug/L		124	60 - 140	3	25
Methacrylonitrile	500	502.9		ug/L		101	70 - 130	0	25
Methyl methacrylate	100	94.58		ug/L		95	70 - 130	0	25
Methyl tert-butyl ether	50.0	46.23		ug/L		92	65 - 135	3	25
Methylene Chloride	50.0	47.58		ug/L		95	71 - 125	5	25
Propionitrile	500	547.7		ug/L		110	70 - 130	2	25
Propylbenzene	50.0	44.09		ug/L		88	75 - 125	9	25
Styrene	50.0	45.91		ug/L		92	75 - 125	6	25
Tetrachloroethene	50.0	44.59		ug/L		89	71 - 125	9	25
Tetrahydrofuran	100	102.2		ug/L		102	75 - 125	1	25
Toluene	50.0	45.00		ug/L		90	70 - 130	9	25
trans-1,2-Dichloroethene	50.0	45.63		ug/L		91	75 - 125	7	25
trans-1,3-Dichloropropene	50.0	44.92		ug/L		90	66 - 125	6	25
trans-1,4-Dichloro-2-butene	50.0	41.61		ug/L		83	70 - 130	1	25
Trichloroethene	50.0	44.01		ug/L		88	75 - 135	4	25
Trichlorofluoromethane	50.0	50.47		ug/L		101	60 - 140	1	25
Vinyl acetate	250	245.6		ug/L		98	60 - 140	2	25
Vinyl chloride	50.0	48.26		ug/L		97	60 - 140	4	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131517/4

Matrix: Water

Analysis Batch: 131517

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total	100	90.63		ug/L		91	75 - 125	8	25
m,p-Xylenes	0.0500	0.04497		mg/L		90	75 - 125	7	25
o-Xylene	0.0500	0.04566		mg/L		91	75 - 125	9	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	106		75 - 131
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 400-246362-A-5 MS

Matrix: Water

Analysis Batch: 131517

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	45.53		ug/L		91	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	45.46		ug/L		91	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	50.38		ug/L		101	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	44.06		ug/L		88	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	46.27		ug/L		93	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	46.89		ug/L		94	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	45.23		ug/L		90	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	46.08		ug/L		92	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	48.47		ug/L		97	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	45.59		ug/L		91	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	46.18		ug/L		92	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	47.58		ug/L		95	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	47.13		ug/L		94	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	48.01		ug/L		96	70 - 125
1,3-Butadiene	<0.568	U	50.0	49.71		ug/L		99	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	45.42		ug/L		91	70 - 130
2-Butanone (MEK)	<8.28	U	250	233.2		ug/L		93	60 - 140
2-Hexanone (MBK)	<7.45	U	250	226.7		ug/L		91	60 - 140
2-Propanol	<5.23	U *+ F1	500	664.7	F1	ug/L		133	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	45.88		ug/L		92	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	230.3		ug/L		92	60 - 140
Acetone	<3.07	U	250	215.2		ug/L		86	60 - 140
Acetonitrile	<14.6	U	500	490.9		ug/L		98	60 - 140
Acrolein	<11.1	U	250	215.2		ug/L		86	50 - 150
Acrylonitrile	<14.3	U	500	458.9		ug/L		92	50 - 150
alpha-Chlorotoluene	<2.26	U *-	50.0	40.39		ug/L		81	70 - 130
Benzene	<0.460	U	50.0	46.64		ug/L		93	66 - 142
Bromodichloromethane	<0.552	U	50.0	46.99		ug/L		94	75 - 125
Bromoform	<0.633	U	50.0	43.46		ug/L		87	75 - 125
Bromomethane	<1.42	U	50.0	38.79		ug/L		78	60 - 140
Carbon disulfide	<1.65	U	50.0	43.06		ug/L		86	60 - 140
Carbon tetrachloride	<0.896	U	50.0	45.82		ug/L		92	62 - 125
Chlorobenzene	<0.455	U	50.0	46.60		ug/L		93	60 - 133

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-246362-A-5 MS

Matrix: Water

Analysis Batch: 131517

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorodibromomethane	<0.547	U	50.0	45.17		ug/L		90	73 - 125
Chloroethane	<1.98	U	50.0	45.75		ug/L		91	60 - 140
Chloroform	<0.464	U	50.0	47.50		ug/L		95	70 - 130
Chloromethane	<2.04	U	50.0	44.56		ug/L		89	60 - 140
Chloroprene	<0.598	U	50.0	47.17		ug/L		94	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	47.02		ug/L		94	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	46.43		ug/L		93	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	46.42		ug/L		93	75 - 125
Cyclohexane	<1.29	U	50.0	44.97		ug/L		90	70 - 130
Dibromomethane	<0.357	U	50.0	46.82		ug/L		94	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	44.30		ug/L		89	70 - 130
Ethyl methacrylate	<1.12	U	50.0	45.19		ug/L		90	70 - 130
Ethylbenzene	<0.385	U	50.0	46.76		ug/L		94	75 - 125
Hexane	<0.517	U	50.0	43.42		ug/L		87	72 - 125
Iodomethane	<6.52	U	50.0	47.70		ug/L		95	75 - 125
Isobutanol	<17.1	U	1240	1446		ug/L		117	60 - 140
Methacrylonitrile	<2.72	U	500	470.5		ug/L		94	70 - 130
Methyl methacrylate	<2.25	U	100	91.00		ug/L		91	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	44.26		ug/L		89	65 - 135
Methylene Chloride	<1.73	U	50.0	46.56		ug/L		93	75 - 125
Propionitrile	<3.34	U	500	507.7		ug/L		102	70 - 130
Propylbenzene	<0.429	U	50.0	48.17		ug/L		96	75 - 125
Styrene	<0.619	U	50.0	46.64		ug/L		93	75 - 125
Tetrachloroethene	<0.655	U	50.0	44.99		ug/L		90	71 - 125
Tetrahydrofuran	<1.83	U	100	93.62		ug/L		94	75 - 125
Toluene	<0.475	U	50.0	45.92		ug/L		92	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	46.33		ug/L		93	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	45.19		ug/L		90	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	42.31		ug/L		85	70 - 130
Trichloroethene	<1.50	U	50.0	44.29		ug/L		89	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	50.46		ug/L		101	60 - 140
Vinyl acetate	<2.14	U	250	237.3		ug/L		95	60 - 140
Vinyl chloride	<0.428	U	50.0	48.13		ug/L		96	60 - 140
Xylenes, Total	<1.24	U	100	93.08		ug/L		93	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.04668		mg/L		93	75 - 125
o-Xylene	<0.000502	U	0.0500	0.04640		mg/L		93	75 - 125
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	99		63 - 144						
4-Bromofluorobenzene (Surr)	99		74 - 124						
Dibromofluoromethane (Surr)	102		75 - 131						
Toluene-d8 (Surr)	101		80 - 120						

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-246362-A-5 MSD

Matrix: Water

Analysis Batch: 131517

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	44.52		ug/L		89	72 - 125	2	25
1,1,1-Trichloroethane	<0.585	U	50.0	46.39		ug/L		93	75 - 125	2	25
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	47.31		ug/L		95	74 - 125	6	25
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	46.27		ug/L		93	60 - 140	5	25
1,1,2-Trichloroethane	<0.411	U	50.0	45.52		ug/L		91	75 - 127	2	25
1,1-Dichloroethane	<0.635	U	50.0	45.37		ug/L		91	72 - 125	3	25
1,1-Dichloroethene	<0.738	U	50.0	46.07		ug/L		92	59 - 172	2	25
1,2,3-Trichloropropane	<0.470	U	50.0	44.42		ug/L		89	75 - 125	4	25
1,2,4-Trimethylbenzene	<0.417	U	50.0	44.51		ug/L		89	75 - 125	9	25
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	43.15		ug/L		86	59 - 125	5	25
1,2-Dibromoethane	<0.999	U	50.0	45.57		ug/L		91	73 - 125	1	25
1,2-Dichloroethane	<0.372	U	50.0	47.25		ug/L		94	68 - 127	1	25
1,2-Dichloropropane	<0.556	U	50.0	47.20		ug/L		94	74 - 125	0	25
1,3,5-Trimethylbenzene	<0.411	U	50.0	43.97		ug/L		88	70 - 125	9	25
1,3-Butadiene	<0.568	U	50.0	50.78		ug/L		102	70 - 150	2	25
2,2,4-Trimethylpentane	<0.500	U	50.0	48.55		ug/L		97	70 - 130	7	25
2-Butanone (MEK)	<8.28	U	250	248.8		ug/L		100	60 - 140	6	25
2-Hexanone (MBK)	<7.45	U	250	235.4		ug/L		94	60 - 140	4	25
2-Propanol	<5.23	U *+ F1	500	686.5	F1	ug/L		137	70 - 120	3	25
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	45.77		ug/L		92	70 - 130	0	25
4-Methyl-2-pentanone	<7.49	U	250	241.9		ug/L		97	60 - 140	5	25
Acetone	<3.07	U	250	223.0		ug/L		89	60 - 140	4	25
Acetonitrile	<14.6	U	500	510.6		ug/L		102	60 - 140	4	25
Acrolein	<11.1	U	250	220.3		ug/L		88	50 - 150	2	25
Acrylonitrile	<14.3	U	500	477.3		ug/L		95	50 - 150	4	25
alpha-Chlorotoluene	<2.26	U *-	50.0	37.14		ug/L		74	70 - 130	8	25
Benzene	<0.460	U	50.0	46.67		ug/L		93	66 - 142	0	25
Bromodichloromethane	<0.552	U	50.0	46.35		ug/L		93	75 - 125	1	25
Bromoform	<0.633	U	50.0	42.81		ug/L		86	75 - 125	2	25
Bromomethane	<1.42	U	50.0	38.02		ug/L		76	60 - 140	2	25
Carbon disulfide	<1.65	U	50.0	43.78		ug/L		88	60 - 140	2	25
Carbon tetrachloride	<0.896	U	50.0	47.03		ug/L		94	62 - 125	3	25
Chlorobenzene	<0.455	U	50.0	45.45		ug/L		91	60 - 133	2	25
Chlorodibromomethane	<0.547	U	50.0	44.11		ug/L		88	73 - 125	2	25
Chloroethane	<1.98	U	50.0	46.99		ug/L		94	60 - 140	3	25
Chloroform	<0.464	U	50.0	47.97		ug/L		96	70 - 130	1	25
Chloromethane	<2.04	U	50.0	43.07		ug/L		86	60 - 140	3	25
Chloroprene	<0.598	U	50.0	47.41		ug/L		95	70 - 130	1	25
cis-1,2-Dichloroethene	<0.457	U	50.0	47.33		ug/L		95	75 - 125	1	25
cis-1,3-Dichloropropene	<1.07	U	50.0	45.82		ug/L		92	74 - 125	1	25
Cumene (isopropylbenzene)	<0.592	U	50.0	45.84		ug/L		92	75 - 125	1	25
Cyclohexane	<1.29	U	50.0	47.79		ug/L		96	70 - 130	6	25
Dibromomethane	<0.357	U	50.0	47.10		ug/L		94	69 - 127	1	25
Dichlorodifluoromethane	<0.785	U	50.0	46.36		ug/L		93	70 - 130	5	25
Ethyl methacrylate	<1.12	U	50.0	45.91		ug/L		92	70 - 130	2	25
Ethylbenzene	<0.385	U	50.0	46.06		ug/L		92	75 - 125	2	25
Hexane	<0.517	U	50.0	45.44		ug/L		91	72 - 125	5	25
Iodomethane	<6.52	U	50.0	47.39		ug/L		95	75 - 125	1	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-246362-A-5 MSD

Matrix: Water

Analysis Batch: 131517

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isobutanol	<17.1	U	1240	1547		ug/L		125	60 - 140	7	25
Methacrylonitrile	<2.72	U	500	486.7		ug/L		97	70 - 130	3	25
Methyl methacrylate	<2.25	U	100	92.55		ug/L		93	70 - 130	2	25
Methyl tert-butyl ether	<1.39	U	50.0	45.09		ug/L		90	65 - 135	2	25
Methylene Chloride	<1.73	U	50.0	46.48		ug/L		93	75 - 125	0	25
Propionitrile	<3.34	U	500	541.4		ug/L		108	70 - 130	6	25
Propylbenzene	<0.429	U	50.0	44.62		ug/L		89	75 - 125	8	25
Styrene	<0.619	U	50.0	46.17		ug/L		92	75 - 125	1	25
Tetrachloroethene	<0.655	U	50.0	45.00		ug/L		90	71 - 125	0	25
Tetrahydrofuran	<1.83	U	100	99.09		ug/L		99	75 - 125	6	25
Toluene	<0.475	U	50.0	45.24		ug/L		90	59 - 139	1	25
trans-1,2-Dichloroethene	<0.368	U	50.0	45.98		ug/L		92	75 - 125	1	25
trans-1,3-Dichloropropene	<1.27	U	50.0	44.17		ug/L		88	66 - 125	2	25
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	38.44		ug/L		77	70 - 130	10	25
Trichloroethene	<1.50	U	50.0	44.32		ug/L		89	62 - 137	0	25
Trichlorofluoromethane	<0.560	U	50.0	52.01		ug/L		104	60 - 140	3	25
Vinyl acetate	<2.14	U	250	240.5		ug/L		96	60 - 140	1	25
Vinyl chloride	<0.428	U	50.0	46.98		ug/L		94	60 - 140	2	25
Xylenes, Total	<1.24	U	100	91.14		ug/L		91	75 - 125	2	25
m,p-Xylenes	<0.00124	U	0.0500	0.04569		mg/L		91	75 - 125	2	25
o-Xylene	<0.000502	U	0.0500	0.04545		mg/L		91	75 - 125	2	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: MB 860-131724/11

Matrix: Water

Analysis Batch: 131724

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/18/23 15:19	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/18/23 15:19	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/18/23 15:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/18/23 15:19	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/18/23 15:19	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/18/23 15:19	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/18/23 15:19	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/18/23 15:19	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/18/23 15:19	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/18/23 15:19	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/18/23 15:19	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/18/23 15:19	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/18/23 15:19	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/18/23 15:19	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/18/23 15:19	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131724/11

Matrix: Water

Analysis Batch: 131724

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/18/23 15:19	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/18/23 15:19	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/18/23 15:19	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/18/23 15:19	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/18/23 15:19	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/18/23 15:19	1
Acetone	<3.07	U	100	3.07	ug/L			11/18/23 15:19	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/18/23 15:19	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/18/23 15:19	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/18/23 15:19	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/18/23 15:19	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/18/23 15:19	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/18/23 15:19	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/18/23 15:19	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/18/23 15:19	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/18/23 15:19	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/18/23 15:19	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/18/23 15:19	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/18/23 15:19	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/18/23 15:19	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/18/23 15:19	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/18/23 15:19	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/18/23 15:19	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/18/23 15:19	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/18/23 15:19	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/18/23 15:19	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/18/23 15:19	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/18/23 15:19	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/18/23 15:19	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/18/23 15:19	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/18/23 15:19	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/18/23 15:19	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/18/23 15:19	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/18/23 15:19	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/18/23 15:19	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/18/23 15:19	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/18/23 15:19	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/18/23 15:19	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/18/23 15:19	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/18/23 15:19	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/18/23 15:19	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/18/23 15:19	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/18/23 15:19	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/18/23 15:19	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/18/23 15:19	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/18/23 15:19	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/18/23 15:19	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/18/23 15:19	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/18/23 15:19	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131724/11

Matrix: Water

Analysis Batch: 131724

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/18/23 15:19	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/18/23 15:19	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/18/23 15:19	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/18/23 15:19	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/18/23 15:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		11/18/23 15:19	1
4-Bromofluorobenzene (Surr)	112		74 - 124		11/18/23 15:19	1
Dibromofluoromethane (Surr)	107		75 - 131		11/18/23 15:19	1
Toluene-d8 (Surr)	103		80 - 120		11/18/23 15:19	1

Lab Sample ID: LCS 860-131724/3

Matrix: Water

Analysis Batch: 131724

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	50.56		ug/L		101	72 - 125
1,1,1-Trichloroethane	50.0	56.33		ug/L		113	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.46		ug/L		107	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.33		ug/L		105	60 - 140
1,1,2-Trichloroethane	50.0	49.96		ug/L		100	70 - 130
1,1-Dichloroethane	50.0	57.56		ug/L		115	70 - 130
1,1-Dichloroethene	50.0	49.79		ug/L		100	50 - 150
1,2,3-Trichloropropane	50.0	51.73		ug/L		103	75 - 125
1,2,4-Trimethylbenzene	50.0	57.42		ug/L		115	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	40.26		ug/L		81	59 - 125
1,2-Dibromoethane	50.0	48.95		ug/L		98	73 - 125
1,2-Dichloroethane	50.0	50.81		ug/L		102	72 - 130
1,2-Dichloropropane	50.0	53.38		ug/L		107	74 - 125
1,3,5-Trimethylbenzene	50.0	58.63		ug/L		117	60 - 140
1,3-Butadiene	50.0	49.14		ug/L		98	60 - 150
2,2,4-Trimethylpentane	50.0	63.63		ug/L		127	70 - 130
2-Butanone (MEK)	250	253.5		ug/L		101	60 - 140
2-Hexanone (MBK)	250	238.3		ug/L		95	60 - 140
2-Propanol	500	572.1		ug/L		114	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	41.28		ug/L		83	70 - 130
4-Methyl-2-pentanone	250	238.8		ug/L		96	60 - 140
Acetone	250	248.2		ug/L		99	60 - 140
Acetonitrile	500	550.9		ug/L		110	60 - 140
Acrolein	250	204.2		ug/L		82	60 - 140
Acrylonitrile	500	519.1		ug/L		104	60 - 140
alpha-Chlorotoluene	50.0	44.85		ug/L		90	75 - 125
Benzene	50.0	51.17		ug/L		102	75 - 125
Bromodichloromethane	50.0	52.64		ug/L		105	75 - 125
Bromoform	50.0	41.26		ug/L		83	70 - 130
Bromomethane	50.0	33.15		ug/L		66	60 - 140
Carbon disulfide	50.0	45.27		ug/L		91	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131724/3

Matrix: Water

Analysis Batch: 131724

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	50.0	51.42		ug/L		103	70 - 130
Chlorobenzene	50.0	49.50		ug/L		99	65 - 135
Chlorodibromomethane	50.0	49.67		ug/L		99	73 - 125
Chloroethane	50.0	43.64		ug/L		87	60 - 140
Chloroform	50.0	54.31		ug/L		109	70 - 121
Chloromethane	50.0	44.27		ug/L		89	60 - 140
Chloroprene	50.0	57.70		ug/L		115	70 - 130
cis-1,2-Dichloroethene	50.0	56.81		ug/L		114	75 - 125
cis-1,3-Dichloropropene	50.0	53.64		ug/L		107	74 - 125
Cumene (isopropylbenzene)	50.0	52.01		ug/L		104	75 - 125
Cyclohexane	50.0	54.33		ug/L		109	70 - 130
Dibromomethane	50.0	51.07		ug/L		102	69 - 127
Dichlorodifluoromethane	50.0	40.92		ug/L		82	50 - 150
Ethyl methacrylate	50.0	52.21		ug/L		104	70 - 130
Ethylbenzene	50.0	51.57		ug/L		103	75 - 125
Hexane	50.0	54.91		ug/L		110	72 - 125
Iodomethane	50.0	44.20		ug/L		88	75 - 125
Isobutanol	1240	1462		ug/L		118	60 - 140
Methacrylonitrile	500	506.5		ug/L		101	70 - 130
Methyl methacrylate	100	103.5		ug/L		103	70 - 130
Methyl tert-butyl ether	50.0	56.45		ug/L		113	65 - 135
Methylene Chloride	50.0	51.00		ug/L		102	71 - 125
Propionitrile	500	534.4		ug/L		107	70 - 130
Propylbenzene	50.0	58.27		ug/L		117	75 - 125
Styrene	50.0	50.89		ug/L		102	75 - 125
Tetrachloroethene	50.0	51.54		ug/L		103	71 - 125
Tetrahydrofuran	100	135.8	*+	ug/L		136	75 - 125
Toluene	50.0	51.39		ug/L		103	70 - 130
trans-1,2-Dichloroethene	50.0	53.26		ug/L		107	75 - 125
trans-1,3-Dichloropropene	50.0	52.53		ug/L		105	66 - 125
trans-1,4-Dichloro-2-butene	50.0	52.14		ug/L		104	70 - 130
Trichloroethene	50.0	51.63		ug/L		103	75 - 135
Trichlorofluoromethane	50.0	57.34		ug/L		115	60 - 140
Vinyl acetate	250	306.4		ug/L		123	60 - 140
Vinyl chloride	50.0	47.36		ug/L		95	60 - 140
Xylenes, Total	100	103.0		ug/L		103	75 - 125
m,p-Xylenes	0.0500	0.05127		mg/L		103	75 - 125
o-Xylene	0.0500	0.05170		mg/L		103	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
4-Bromofluorobenzene (Surr)	116		74 - 124
Dibromofluoromethane (Surr)	106		75 - 131
Toluene-d8 (Surr)	101		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131724/4

Matrix: Water

Analysis Batch: 131724

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	48.39		ug/L		97	72 - 125	4	25
1,1,1-Trichloroethane	50.0	50.02		ug/L		100	70 - 130	12	25
1,1,2,2-Tetrachloroethane	50.0	52.41		ug/L		105	74 - 125	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	41.02		ug/L		82	60 - 140	24	25
1,1,2-Trichloroethane	50.0	49.44		ug/L		99	70 - 130	1	25
1,1-Dichloroethane	50.0	50.85		ug/L		102	70 - 130	12	25
1,1-Dichloroethene	50.0	46.25		ug/L		92	50 - 150	7	25
1,2,3-Trichloropropane	50.0	52.37		ug/L		105	75 - 125	1	25
1,2,4-Trimethylbenzene	50.0	52.96		ug/L		106	75 - 125	8	25
1,2-Dibromo-3-Chloropropane	50.0	44.98		ug/L		90	59 - 125	11	25
1,2-Dibromoethane	50.0	50.17		ug/L		100	73 - 125	2	25
1,2-Dichloroethane	50.0	49.52		ug/L		99	72 - 130	3	25
1,2-Dichloropropane	50.0	50.21		ug/L		100	74 - 125	6	25
1,3,5-Trimethylbenzene	50.0	52.82		ug/L		106	60 - 140	10	25
1,3-Butadiene	50.0	50.76		ug/L		102	60 - 150	3	25
2,2,4-Trimethylpentane	50.0	59.93		ug/L		120	70 - 130	6	25
2-Butanone (MEK)	250	273.3		ug/L		109	60 - 140	8	25
2-Hexanone (MBK)	250	253.0		ug/L		101	60 - 140	6	25
2-Propanol	500	646.6	*+	ug/L		129	70 - 120	12	25
3-Chloropropene (Allyl Chloride)	50.0	50.08		ug/L		100	70 - 130	19	25
4-Methyl-2-pentanone	250	253.3		ug/L		101	60 - 140	6	25
Acetone	250	269.6		ug/L		108	60 - 140	8	25
Acetonitrile	500	570.4		ug/L		114	60 - 140	3	25
Acrolein	250	206.6		ug/L		83	60 - 140	1	25
Acrylonitrile	500	526.1		ug/L		105	60 - 140	1	25
alpha-Chlorotoluene	50.0	44.80		ug/L		90	75 - 125	0	25
Benzene	50.0	47.34		ug/L		95	75 - 125	8	25
Bromodichloromethane	50.0	50.19		ug/L		100	75 - 125	5	25
Bromoform	50.0	40.74		ug/L		81	70 - 130	1	25
Bromomethane	50.0	34.06		ug/L		68	60 - 140	3	25
Carbon disulfide	50.0	39.93		ug/L		80	60 - 140	13	25
Carbon tetrachloride	50.0	46.73		ug/L		93	70 - 130	10	25
Chlorobenzene	50.0	47.13		ug/L		94	65 - 135	5	25
Chlorodibromomethane	50.0	49.07		ug/L		98	73 - 125	1	25
Chloroethane	50.0	49.29		ug/L		99	60 - 140	12	25
Chloroform	50.0	50.56		ug/L		101	70 - 121	7	25
Chloromethane	50.0	48.12		ug/L		96	60 - 140	8	25
Chloroprene	50.0	50.36		ug/L		101	70 - 130	14	25
cis-1,2-Dichloroethene	50.0	51.70		ug/L		103	75 - 125	9	25
cis-1,3-Dichloropropene	50.0	51.11		ug/L		102	74 - 125	5	25
Cumene (isopropylbenzene)	50.0	47.86		ug/L		96	75 - 125	8	25
Cyclohexane	50.0	48.49		ug/L		97	70 - 130	11	25
Dibromomethane	50.0	50.46		ug/L		101	69 - 127	1	25
Dichlorodifluoromethane	50.0	43.04		ug/L		86	50 - 150	5	25
Ethyl methacrylate	50.0	52.96		ug/L		106	70 - 130	1	25
Ethylbenzene	50.0	47.85		ug/L		96	75 - 125	7	25
Hexane	50.0	46.91		ug/L		94	72 - 125	16	25
Iodomethane	50.0	42.58		ug/L		85	75 - 125	4	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131724/4

Matrix: Water

Analysis Batch: 131724

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isobutanol	1240	1553		ug/L		125	60 - 140	6	25
Methacrylonitrile	500	528.2		ug/L		106	70 - 130	4	25
Methyl methacrylate	100	105.9		ug/L		106	70 - 130	2	25
Methyl tert-butyl ether	50.0	53.39		ug/L		107	65 - 135	6	25
Methylene Chloride	50.0	47.24		ug/L		94	71 - 125	8	25
Propionitrile	500	565.1		ug/L		113	70 - 130	6	25
Propylbenzene	50.0	51.95		ug/L		104	75 - 125	11	25
Styrene	50.0	48.43		ug/L		97	75 - 125	5	25
Tetrachloroethene	50.0	46.46		ug/L		93	71 - 125	10	25
Tetrahydrofuran	100	141.5	*+	ug/L		141	75 - 125	4	25
Toluene	50.0	46.45		ug/L		93	70 - 130	10	25
trans-1,2-Dichloroethene	50.0	47.79		ug/L		96	75 - 125	11	25
trans-1,3-Dichloropropene	50.0	50.35		ug/L		101	66 - 125	4	25
trans-1,4-Dichloro-2-butene	50.0	52.51		ug/L		105	70 - 130	1	25
Trichloroethene	50.0	45.84		ug/L		92	75 - 135	12	25
Trichlorofluoromethane	50.0	66.24		ug/L		132	60 - 140	14	25
Vinyl acetate	250	300.2		ug/L		120	60 - 140	2	25
Vinyl chloride	50.0	51.96		ug/L		104	60 - 140	9	25
Xylenes, Total	100	95.83		ug/L		96	75 - 125	7	25
m,p-Xylenes	0.0500	0.04778		mg/L		96	75 - 125	7	25
o-Xylene	0.0500	0.04805		mg/L		96	75 - 125	7	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
4-Bromofluorobenzene (Surr)	113		74 - 124
Dibromofluoromethane (Surr)	105		75 - 131
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 860-61601-5 MS

Matrix: Water

Analysis Batch: 131724

Client Sample ID: MW-68

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<3.22	U	250	249.5		ug/L		100	72 - 125
1,1,1-Trichloroethane	<2.93	U	250	272.9		ug/L		109	75 - 125
1,1,2,2-Tetrachloroethane	<2.35	U	250	241.9		ug/L		97	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.55	U	250	278.8		ug/L		112	60 - 140
1,1,2-Trichloroethane	<2.06	U	250	242.8		ug/L		97	75 - 127
1,1-Dichloroethane	<3.18	U	250	284.8		ug/L		114	72 - 125
1,1-Dichloroethene	<3.69	U	250	274.9		ug/L		110	59 - 172
1,2,3-Trichloropropane	<2.35	U	250	238.4		ug/L		95	75 - 125
1,2,4-Trimethylbenzene	57.9		250	323.5		ug/L		106	75 - 125
1,2-Dibromo-3-Chloropropane	<3.36	U	250	218.4		ug/L		87	59 - 125
1,2-Dibromoethane	<5.00	U	250	242.9		ug/L		97	73 - 125
1,2-Dichloroethane	<1.86	U	250	249.2		ug/L		100	68 - 127
1,2-Dichloropropane	<2.78	U	250	249.8		ug/L		100	74 - 125
1,3,5-Trimethylbenzene	16.6		250	277.6		ug/L		104	70 - 125
1,3-Butadiene	<2.84	U	250	209.1		ug/L		84	70 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61601-5 MS

Matrix: Water

Analysis Batch: 131724

Client Sample ID: MW-68

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	<2.50	U F1	250	342.8	F1	ug/L		137	70 - 130
2-Butanone (MEK)	<41.4	U	1250	1287		ug/L		103	60 - 140
2-Hexanone (MBK)	<37.2	U	1250	1269		ug/L		102	60 - 140
2-Propanol	<26.1	U *+ F1	2500	3376	F1	ug/L		135	70 - 120
3-Chloropropene (Allyl Chloride)	<2.99	U	250	301.2		ug/L		120	70 - 130
4-Methyl-2-pentanone	<37.5	U	1250	1239		ug/L		99	60 - 140
Acetone	<15.3	U	1250	1328		ug/L		106	60 - 140
Acetonitrile	<73.0	U	2500	3305		ug/L		132	60 - 140
Acrolein	<55.6	U	1250	790.8		ug/L		63	50 - 150
Acrylonitrile	<71.6	U	2500	2641		ug/L		106	50 - 150
alpha-Chlorotoluene	<11.3	U	250	225.7		ug/L		90	70 - 130
Bromodichloromethane	<2.76	U	250	249.6		ug/L		100	75 - 125
Bromoform	<3.17	U	250	195.5		ug/L		78	75 - 125
Bromomethane	<7.10	U F1	250	80.84	F1	ug/L		32	60 - 140
Carbon disulfide	<8.25	U	250	277.9		ug/L		111	60 - 140
Carbon tetrachloride	<4.48	U	250	268.4		ug/L		107	62 - 125
Chlorobenzene	<2.28	U	250	243.8		ug/L		98	60 - 133
Chlorodibromomethane	<2.74	U	250	243.5		ug/L		97	73 - 125
Chloroethane	<9.92	U	250	196.4		ug/L		79	60 - 140
Chloroform	<2.32	U	250	258.8		ug/L		104	70 - 130
Chloromethane	<10.2	U	250	201.7		ug/L		81	60 - 140
Chloroprene	<2.99	U	250	281.6		ug/L		113	70 - 130
cis-1,2-Dichloroethene	<2.29	U	250	272.9		ug/L		109	75 - 125
cis-1,3-Dichloropropene	<5.34	U	250	259.5		ug/L		104	74 - 125
Cumene (isopropylbenzene)	15.6		250	278.3		ug/L		105	75 - 125
Cyclohexane	190		250	498.0		ug/L		123	70 - 130
Dibromomethane	<1.79	U	250	242.6		ug/L		97	69 - 127
Dichlorodifluoromethane	<3.93	U	250	226.4		ug/L		91	70 - 130
Ethyl methacrylate	<5.59	U	250	263.5		ug/L		105	70 - 130
Ethylbenzene	233		250	516.1		ug/L		113	75 - 125
Hexane	4.95	J	250	318.3		ug/L		125	72 - 125
Iodomethane	<32.6	U	250	252.1		ug/L		101	75 - 125
Isobutanol	<85.5	U	6200	7659		ug/L		124	60 - 140
Methacrylonitrile	<13.6	U	2500	2916		ug/L		117	70 - 130
Methyl methacrylate	<11.3	U	500	498.7		ug/L		100	70 - 130
Methyl tert-butyl ether	<6.96	U	250	281.8		ug/L		113	65 - 135
Methylene Chloride	14.1	J	250	267.9		ug/L		102	75 - 125
Propionitrile	<16.7	U	2500	2522		ug/L		101	70 - 130
Propylbenzene	28.7		250	286.4		ug/L		103	75 - 125
Styrene	<3.10	U	250	252.3		ug/L		101	75 - 125
Tetrachloroethene	<3.28	U	250	252.0		ug/L		101	71 - 125
Tetrahydrofuran	<9.17	U *+ F1	500	694.6	F1	ug/L		139	75 - 125
Toluene	17.7		250	275.5		ug/L		103	59 - 139
trans-1,2-Dichloroethene	<1.84	U	250	272.5		ug/L		109	75 - 125
trans-1,3-Dichloropropene	<6.34	U	250	258.0		ug/L		103	66 - 125
trans-1,4-Dichloro-2-butene	<6.75	U	250	251.8		ug/L		101	70 - 130
Trichloroethene	<7.50	U	250	250.0		ug/L		100	62 - 137
Trichlorofluoromethane	<2.80	U	250	262.9		ug/L		105	60 - 140
Vinyl acetate	<10.7	U	1250	1683		ug/L		135	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61601-5 MS

Matrix: Water

Analysis Batch: 131724

Client Sample ID: MW-68

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	<2.14	U	250	221.5		ug/L		89	60 - 140
Xylenes, Total	210		500	743.0		ug/L		107	75 - 125
m,p-Xylenes	0.203		0.250	0.4789		mg/L		110	75 - 125
o-Xylene	0.00707		0.250	0.2641		mg/L		103	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		63 - 144
4-Bromofluorobenzene (Surr)	103		74 - 124
Dibromofluoromethane (Surr)	105		75 - 131
Toluene-d8 (Surr)	105		80 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-131401/1-A

Matrix: Water

Analysis Batch: 131865

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 131401

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.150	U	0.571	0.150	ug/L		11/16/23 11:57	11/20/23 16:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	118		37 - 133	11/16/23 11:57	11/20/23 16:19	1

Lab Sample ID: LCS 860-131401/2-A

Matrix: Water

Analysis Batch: 131865

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 131401

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.86	0.8169		ug/L		29	27 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	69		35 - 130
2-Fluorophenol (Surr)	49		19 - 120
2-Fluorobiphenyl	88		43 - 130
Nitrobenzene-d5 (Surr)	95		37 - 133
Phenol-d5 (Surr)	35		8 - 124
p-Terphenyl-d14 (Surr)	85		47 - 130

Lab Sample ID: LCSD 860-131401/3-A

Matrix: Water

Analysis Batch: 131865

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 131401

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.86	0.7758		ug/L		27	27 - 130	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	68		35 - 130
2-Fluorophenol (Surr)	46		19 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-131401/3-A

Matrix: Water

Analysis Batch: 131865

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 131401

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	93		43 - 130
Nitrobenzene-d5 (Surr)	87		37 - 133
Phenol-d5 (Surr)	29		8 - 124
p-Terphenyl-d14 (Surr)	87		47 - 130

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 860-131552/1-A

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 131552

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/17/23 17:26	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/17/23 08:38	11/17/23 17:26	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/17/23 08:38	11/17/23 17:26	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/17/23 08:38	11/17/23 17:26	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/17/23 08:38	11/17/23 17:26	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/17/23 08:38	11/17/23 17:26	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/17/23 08:38	11/17/23 17:26	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/17/23 17:26	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/17/23 08:38	11/17/23 17:26	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/17/23 08:38	11/17/23 17:26	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/17/23 08:38	11/17/23 17:26	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/17/23 08:38	11/17/23 17:26	1
3,3'-Dimethylbenzidine	<0.444	U	8.00	0.444	ug/L		11/17/23 08:38	11/17/23 17:26	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/17/23 08:38	11/17/23 17:26	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/17/23 08:38	11/17/23 17:26	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/17/23 08:38	11/17/23 17:26	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/17/23 08:38	11/17/23 17:26	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-131552/1-A

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 131552

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/17/23 08:38	11/17/23 17:26	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/17/23 08:38	11/17/23 17:26	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/17/23 08:38	11/17/23 17:26	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/17/23 17:26	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/17/23 08:38	11/17/23 17:26	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/17/23 08:38	11/17/23 17:26	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/17/23 08:38	11/17/23 17:26	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/17/23 08:38	11/17/23 17:26	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/17/23 17:26	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/17/23 08:38	11/17/23 17:26	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/17/23 08:38	11/17/23 17:26	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/17/23 08:38	11/17/23 17:26	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/17/23 08:38	11/17/23 17:26	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/17/23 17:26	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/17/23 17:26	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/17/23 17:26	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/17/23 08:38	11/17/23 17:26	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/17/23 17:26	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/17/23 08:38	11/17/23 17:26	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/17/23 08:38	11/17/23 17:26	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/17/23 08:38	11/17/23 17:26	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/17/23 08:38	11/17/23 17:26	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/17/23 08:38	11/17/23 17:26	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/17/23 17:26	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/17/23 17:26	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/17/23 17:26	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/17/23 17:26	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/17/23 08:38	11/17/23 17:26	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/17/23 08:38	11/17/23 17:26	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/17/23 08:38	11/17/23 17:26	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/17/23 17:26	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/17/23 08:38	11/17/23 17:26	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/17/23 08:38	11/17/23 17:26	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/17/23 08:38	11/17/23 17:26	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/17/23 08:38	11/17/23 17:26	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/17/23 08:38	11/17/23 17:26	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/17/23 17:26	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/17/23 08:38	11/17/23 17:26	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/17/23 08:38	11/17/23 17:26	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/17/23 17:26	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/17/23 08:38	11/17/23 17:26	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/17/23 17:26	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/17/23 08:38	11/17/23 17:26	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/17/23 08:38	11/17/23 17:26	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/17/23 08:38	11/17/23 17:26	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/17/23 08:38	11/17/23 17:26	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/17/23 08:38	11/17/23 17:26	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/17/23 08:38	11/17/23 17:26	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/17/23 17:26	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-131552/1-A

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 131552

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/17/23 08:38	11/17/23 17:26	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/17/23 08:38	11/17/23 17:26	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/17/23 08:38	11/17/23 17:26	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/17/23 08:38	11/17/23 17:26	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/17/23 17:26	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/17/23 17:26	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/17/23 17:26	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/17/23 08:38	11/17/23 17:26	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/17/23 08:38	11/17/23 17:26	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/17/23 08:38	11/17/23 17:26	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/17/23 08:38	11/17/23 17:26	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/17/23 08:38	11/17/23 17:26	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/17/23 08:38	11/17/23 17:26	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/17/23 08:38	11/17/23 17:26	1
p-Phenylene diamine	<10.0	U	10.0	10.0	ug/L		11/17/23 08:38	11/17/23 17:26	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/17/23 08:38	11/17/23 17:26	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/17/23 17:26	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/17/23 08:38	11/17/23 17:26	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/17/23 08:38	11/17/23 17:26	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/17/23 08:38	11/17/23 17:26	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/17/23 08:38	11/17/23 17:26	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/17/23 08:38	11/17/23 17:26	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/17/23 17:26	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/17/23 17:26	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/17/23 08:38	11/17/23 17:26	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/17/23 08:38	11/17/23 17:26	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/17/23 17:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	37		31 - 132	11/17/23 08:38	11/17/23 17:26	1
2-Fluorobiphenyl	41		40 - 130	11/17/23 08:38	11/17/23 17:26	1
2-Fluorophenol (Surr)	27		21 - 114	11/17/23 08:38	11/17/23 17:26	1
Nitrobenzene-d5 (Surr)	41		37 - 130	11/17/23 08:38	11/17/23 17:26	1
Phenol-d5 (Surr)	19		16 - 117	11/17/23 08:38	11/17/23 17:26	1
p-Terphenyl-d14	74		20 - 141	11/17/23 08:38	11/17/23 17:26	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-131552/2-A

Matrix: Water

Analysis Batch: 131841

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	20.0	14.52		ug/L		73	41 - 117
1,2,4,5-Tetrachlorobenzene	20.0	13.69		ug/L		68	39 - 120
1,2,4-Trichlorobenzene	20.0	14.15		ug/L		71	34 - 117
1,2-Dichlorobenzene	20.0	14.45		ug/L		72	38 - 111
1,3,5-Trinitrobenzene	20.0	18.50		ug/L		93	35 - 128
1,3-Dichlorobenzene	20.0	14.37		ug/L		72	37 - 111
1,3-Dinitrobenzene	20.0	16.26		ug/L		81	36 - 131
1,4-Dichlorobenzene	20.0	14.06		ug/L		70	37 - 111
1,4-Naphthoquinone	20.0	16.64		ug/L		83	10 - 150
1-Naphthylamine	20.0	10.19		ug/L		51	40 - 120
2,2'-oxybis[1-chloropropane]	20.0	16.90		ug/L		85	10 - 150
2,3,4,6-Tetrachlorophenol	20.0	18.44		ug/L		92	33 - 132
2,4,5-Trichlorophenol	20.0	18.03		ug/L		90	39 - 125
2,4,6-Trichlorophenol	20.0	17.01		ug/L		85	42 - 125
2,4-Dichlorophenol	20.0	15.67		ug/L		78	38 - 120
2,4-Dimethylphenol	20.0	18.98		ug/L		95	39 - 117
2,4-Dinitrophenol	20.0	17.93		ug/L		90	13 - 152
2,4-Dinitrotoluene	20.0	19.05		ug/L		95	41 - 128
2,6-Dichlorophenol	20.0	15.18		ug/L		76	42 - 118
2,6-Dinitrotoluene	20.0	17.42		ug/L		87	42 - 127
2-Acetylaminofluorene	20.0	16.17		ug/L		81	40 - 130
2-Chloronaphthalene	20.0	13.68		ug/L		68	40 - 118
2-Chlorophenol	20.0	15.01		ug/L		75	41 - 108
2-Methylnaphthalene	20.0	15.13		ug/L		76	37 - 112
2-Methylphenol	20.0	14.50		ug/L		72	36 - 125
2-Naphthylamine	20.0	8.438		ug/L		42	40 - 120
2-Nitroaniline	20.0	15.45		ug/L		77	34 - 126
2-Nitrophenol	20.0	15.50		ug/L		78	38 - 125
2-Picoline	20.0	6.420		ug/L		32	11 - 107
2-Toluidine	20.0	12.65		ug/L		63	38 - 124
3 & 4 Methylphenol	20.0	12.91		ug/L		65	35 - 116
3,3'-Dichlorobenzidine	20.0	14.50		ug/L		73	29 - 141
3,3'-Dimethylbenzidine	20.0	2.353	J *	ug/L		12	40 - 130
3-Methylcholanthrene	20.0	16.23		ug/L		81	20 - 130
3-Nitroaniline	20.0	16.09		ug/L		80	42 - 123
4,6-Dinitro-2-methylphenol	20.0	17.29		ug/L		86	12 - 157
4-Aminobiphenyl	20.0	7.033	J	ug/L		35	20 - 130
4-Bromophenyl phenyl ether	20.0	15.96		ug/L		80	40 - 126
4-Chloro-3-methylphenol	20.0	16.91		ug/L		85	40 - 119
4-Chloroaniline	20.0	11.77		ug/L		59	39 - 111
4-Chlorophenyl phenyl ether	20.0	15.44		ug/L		77	40 - 122
4-Nitroaniline	20.0	15.28		ug/L		76	42 - 125
4-Nitroquinoline-1-oxide	20.0	14.01		ug/L		70	20 - 130
7,12-Dimethylbenz(a)anthracene	20.0	11.67		ug/L		58	40 - 120
Acenaphthene	20.0	15.38		ug/L		77	41 - 116
Acenaphthylene	20.0	15.91		ug/L		80	41 - 118
Acetophenone	20.0	14.65		ug/L		73	23 - 175
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		3	

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-131552/2-A

Matrix: Water

Analysis Batch: 131841

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	20.0	10.35		ug/L		52	31 - 100
Anthracene	20.0	16.39		ug/L		82	39 - 127
Benzo[a]anthracene	20.0	15.92		ug/L		80	40 - 129
Benzo[a]pyrene	20.0	17.06		ug/L		85	36 - 141
Benzo[b]fluoranthene	20.0	16.12		ug/L		81	34 - 139
Benzo[g,h,i]perylene	20.0	17.51		ug/L		88	32 - 141
Benzo[k]fluoranthene	20.0	16.10		ug/L		80	31 - 139
Benzyl alcohol	20.0	16.02		ug/L		80	37 - 102
Bis(2-chloroethoxy)methane	20.0	15.23		ug/L		76	36 - 113
Bis(2-chloroethyl)ether	20.0	15.34		ug/L		77	38 - 111
Bis(2-ethylhexyl) phthalate	20.0	17.53		ug/L		88	44 - 136
Butyl benzyl phthalate	20.0	17.76		ug/L		89	44 - 133
Chrysene	20.0	15.66		ug/L		78	41 - 124
Dibenz(a,h)anthracene	20.0	18.28		ug/L		91	35 - 143
Dibenzofuran	20.0	15.38		ug/L		77	41 - 119
Diethyl phthalate	20.0	16.55		ug/L		83	41 - 125
Dimethyl phthalate	20.0	16.40		ug/L		82	42 - 123
Di-n-butyl phthalate	20.0	21.31		ug/L		107	41 - 133
Di-n-octyl phthalate	20.0	18.65		ug/L		93	34 - 145
Diphenyl ether	20.0	14.70		ug/L		73	40 - 130
Ethyl methanesulfonate	20.0	15.33		ug/L		77	40 - 127
Fluoranthene	20.0	17.55		ug/L		88	38 - 132
Fluorene	20.0	15.81		ug/L		79	41 - 121
Hexachlorobenzene	20.0	14.70		ug/L		74	39 - 128
Hexachlorobutadiene	20.0	14.47		ug/L		72	31 - 120
Hexachlorocyclopentadiene	20.0	15.22		ug/L		76	15 - 117
Hexachloroethane	20.0	13.60		ug/L		68	37 - 109
Hexachloropropene	20.0	11.07		ug/L		55	24 - 122
Indeno[1,2,3-cd]pyrene	20.0	18.19		ug/L		91	35 - 141
Isophorone	20.0	16.56		ug/L		83	40 - 115
Methyl methanesulfonate	20.0	13.27		ug/L		66	33 - 120
Naphthalene	20.0	14.41		ug/L		72	37 - 113
Nitrobenzene	20.0	15.45		ug/L		77	37 - 114
N-Nitro-o-toluidine	20.0	16.00		ug/L		80	40 - 120
N-Nitrosodiethylamine	20.0	16.02		ug/L		80	42 - 115
N-Nitrosodimethylamine	20.0	12.50		ug/L		62	28 - 126
N-Nitrosodi-n-butylamine	20.0	13.69		ug/L		68	34 - 122
N-Nitrosodi-n-propylamine	20.0	16.86		ug/L		84	38 - 117
N-Nitrosodiphenylamine	20.0	16.84		ug/L		84	40 - 127
N-Nitrosomethylethylamine	20.0	15.34		ug/L		77	41 - 108
N-Nitrosomorpholine	20.0	16.41		ug/L		82	32 - 115
N-Nitrosopiperidine	20.0	15.42		ug/L		77	39 - 115
N-Nitrosopyrrolidine	20.0	15.11		ug/L		76	36 - 121
p-Dimethylamino azobenzene	20.0	13.74		ug/L		69	38 - 124
Pentachlorobenzene	20.0	13.99		ug/L		70	40 - 123
Pentachloronitrobenzene	20.0	16.38		ug/L		82	40 - 120
Pentachlorophenol	20.0	16.13		ug/L		81	10 - 137
Phenacetin	20.0	15.86		ug/L		79	20 - 130
Phenanthrene	20.0	15.84		ug/L		79	39 - 126

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-131552/2-A

Matrix: Water

Analysis Batch: 131841

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	20.0	8.791		ug/L		44	15 - 106
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150
Pronamide	20.0	18.31		ug/L		92	25 - 120
Pyrene	20.0	14.70		ug/L		74	40 - 130
Pyridine	20.0	5.611		ug/L		28	16 - 135
Safrole, Total	20.0	15.39		ug/L		77	40 - 120
Aramite Peak 2	10.0	8.863		ug/L		89	35 - 130
Isosafrole Peak 1	3.20	<2.46	U	ug/L		71	40 - 120
Diallate Peak 2	5.20	4.446	J	ug/L		85	38 - 130
Isosafrole Peak 2	16.8	12.64		ug/L		75	40 - 120
Diallate Peak 1	14.8	13.39		ug/L		90	38 - 130
Aramite Peak 1	10.0	8.942		ug/L		89	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	96		31 - 132
2-Fluorobiphenyl	88		40 - 130
2-Fluorophenol (Surr)	66		21 - 114
Nitrobenzene-d5 (Surr)	90		37 - 130
Phenol-d5 (Surr)	51		16 - 117
p-Terphenyl-d14	105		20 - 141

Lab Sample ID: LCSD 860-131552/3-A

Matrix: Water

Analysis Batch: 131841

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	20.0	14.48		ug/L		72	41 - 117	0	30
1,2,4,5-Tetrachlorobenzene	20.0	13.56		ug/L		68	39 - 120	1	30
1,2,4-Trichlorobenzene	20.0	14.00		ug/L		70	34 - 117	1	30
1,2-Dichlorobenzene	20.0	14.57		ug/L		73	38 - 111	1	30
1,3,5-Trinitrobenzene	20.0	19.24		ug/L		96	35 - 128	4	30
1,3-Dichlorobenzene	20.0	14.16		ug/L		71	37 - 111	1	30
1,3-Dinitrobenzene	20.0	16.81		ug/L		84	36 - 131	3	30
1,4-Dichlorobenzene	20.0	14.15		ug/L		71	37 - 111	1	30
1,4-Naphthoquinone	20.0	16.66		ug/L		83	10 - 150	0	30
1-Naphthylamine	20.0	10.32		ug/L		52	40 - 120	1	30
2,2'-oxybis[1-chloropropane]	20.0	16.61		ug/L		83	10 - 150	2	30
2,3,4,6-Tetrachlorophenol	20.0	19.12		ug/L		96	33 - 132	4	30
2,4,5-Trichlorophenol	20.0	18.23		ug/L		91	39 - 125	1	30
2,4,6-Trichlorophenol	20.0	17.27		ug/L		86	42 - 125	2	30
2,4-Dichlorophenol	20.0	15.76		ug/L		79	38 - 120	1	30
2,4-Dimethylphenol	20.0	19.28		ug/L		96	39 - 117	2	30
2,4-Dinitrophenol	20.0	19.16		ug/L		96	13 - 152	7	30
2,4-Dinitrotoluene	20.0	19.55		ug/L		98	41 - 128	3	30
2,6-Dichlorophenol	20.0	15.08		ug/L		75	42 - 118	1	30
2,6-Dinitrotoluene	20.0	17.53		ug/L		88	42 - 127	1	30
2-Acetylaminofluorene	20.0	17.48		ug/L		87	40 - 130	8	30
2-Chloronaphthalene	20.0	13.89		ug/L		69	40 - 118	2	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-131552/3-A

Matrix: Water

Analysis Batch: 131841

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chlorophenol	20.0	15.01		ug/L		75	41 - 108	0	30
2-Methylnaphthalene	20.0	15.28		ug/L		76	37 - 112	1	30
2-Methylphenol	20.0	14.37		ug/L		72	36 - 125	1	30
2-Naphthylamine	20.0	8.198		ug/L		41	40 - 120	3	30
2-Nitroaniline	20.0	15.74		ug/L		79	34 - 126	2	30
2-Nitrophenol	20.0	16.38		ug/L		82	38 - 125	5	30
2-Picoline	20.0	6.306		ug/L		32	11 - 107	2	30
2-Toluidine	20.0	12.42		ug/L		62	38 - 124	2	30
3 & 4 Methylphenol	20.0	13.28		ug/L		66	35 - 116	3	30
3,3'-Dichlorobenzidine	20.0	14.61		ug/L		73	29 - 141	1	30
3,3'-Dimethylbenzidine	20.0	2.190	J *	ug/L		11	40 - 130	7	30
3-Methylcholanthrene	20.0	16.28		ug/L		81	20 - 130	0	30
3-Nitroaniline	20.0	16.24		ug/L		81	42 - 123	1	30
4,6-Dinitro-2-methylphenol	20.0	18.52		ug/L		93	12 - 157	7	30
4-Aminobiphenyl	20.0	6.208	J	ug/L		31	20 - 130	12	30
4-Bromophenyl phenyl ether	20.0	15.83		ug/L		79	40 - 126	1	30
4-Chloro-3-methylphenol	20.0	17.04		ug/L		85	40 - 119	1	30
4-Chloroaniline	20.0	12.04		ug/L		60	39 - 111	2	30
4-Chlorophenyl phenyl ether	20.0	15.71		ug/L		79	40 - 122	2	30
4-Nitroaniline	20.0	14.28		ug/L		71	42 - 125	7	30
4-Nitroquinoline-1-oxide	20.0	15.40		ug/L		77	20 - 130	9	30
7,12-Dimethylbenz(a)anthracene	20.0	11.57		ug/L		58	40 - 120	1	30
Acenaphthene	20.0	15.38		ug/L		77	41 - 116	0	30
Acenaphthylene	20.0	15.99		ug/L		80	41 - 118	1	30
Acetophenone	20.0	14.78		ug/L		74	23 - 175	1	30
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		3		1	30
Aniline	20.0	10.31		ug/L		52	31 - 100	0	30
Anthracene	20.0	16.72		ug/L		84	39 - 127	2	30
Benzo[a]anthracene	20.0	15.89		ug/L		79	40 - 129	0	30
Benzo[a]pyrene	20.0	17.08		ug/L		85	36 - 141	0	30
Benzo[b]fluoranthene	20.0	16.03		ug/L		80	34 - 139	1	30
Benzo[g,h,i]perylene	20.0	17.44		ug/L		87	32 - 141	0	30
Benzo[k]fluoranthene	20.0	16.06		ug/L		80	31 - 139	0	30
Benzyl alcohol	20.0	16.92		ug/L		85	37 - 102	5	30
Bis(2-chloroethoxy)methane	20.0	14.91		ug/L		75	36 - 113	2	30
Bis(2-chloroethyl)ether	20.0	15.63		ug/L		78	38 - 111	2	30
Bis(2-ethylhexyl) phthalate	20.0	17.76		ug/L		89	44 - 136	1	30
Butyl benzyl phthalate	20.0	18.14		ug/L		91	44 - 133	2	30
Chrysene	20.0	15.82		ug/L		79	41 - 124	1	30
Dibenz(a,h)anthracene	20.0	18.17		ug/L		91	35 - 143	1	30
Dibenzofuran	20.0	15.21		ug/L		76	41 - 119	1	30
Diethyl phthalate	20.0	16.54		ug/L		83	41 - 125	0	30
Dimethyl phthalate	20.0	16.80		ug/L		84	42 - 123	2	30
Di-n-butyl phthalate	20.0	21.68		ug/L		108	41 - 133	2	30
Di-n-octyl phthalate	20.0	18.90		ug/L		95	34 - 145	1	30
Diphenyl ether	20.0	14.51		ug/L		73	40 - 130	1	30
Ethyl methanesulfonate	20.0	15.35		ug/L		77	40 - 127	0	30
Fluoranthene	20.0	17.77		ug/L		89	38 - 132	1	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-131552/3-A

Matrix: Water

Analysis Batch: 131841

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluorene	20.0	15.99		ug/L		80	41 - 121	1	30
Hexachlorobenzene	20.0	14.77		ug/L		74	39 - 128	0	30
Hexachlorobutadiene	20.0	13.83		ug/L		69	31 - 120	5	30
Hexachlorocyclopentadiene	20.0	15.51		ug/L		78	15 - 117	2	30
Hexachloroethane	20.0	13.64		ug/L		68	37 - 109	0	30
Hexachloropropene	20.0	11.34		ug/L		57	24 - 122	2	30
Indeno[1,2,3-cd]pyrene	20.0	18.06		ug/L		90	35 - 141	1	30
Isophorone	20.0	16.49		ug/L		82	40 - 115	0	30
Methyl methanesulfonate	20.0	13.23		ug/L		66	33 - 120	0	30
Naphthalene	20.0	14.31		ug/L		72	37 - 113	1	30
Nitrobenzene	20.0	15.34		ug/L		77	37 - 114	1	30
N-Nitro-o-toluidine	20.0	16.61		ug/L		83	40 - 120	4	30
N-Nitrosodiethylamine	20.0	15.65		ug/L		78	42 - 115	2	30
N-Nitrosodimethylamine	20.0	12.55		ug/L		63	28 - 126	0	30
N-Nitrosodi-n-butylamine	20.0	13.51		ug/L		68	34 - 122	1	30
N-Nitrosodi-n-propylamine	20.0	16.67		ug/L		83	38 - 117	1	30
N-Nitrosodiphenylamine	20.0	17.46		ug/L		87	40 - 127	4	30
N-Nitrosomethylethylamine	20.0	15.21		ug/L		76	41 - 108	1	30
N-Nitrosomorpholine	20.0	16.26		ug/L		81	32 - 115	1	30
N-Nitrosopiperidine	20.0	15.47		ug/L		77	39 - 115	0	30
N-Nitrosopyrrolidine	20.0	15.62		ug/L		78	36 - 121	3	30
p-Dimethylamino azobenzene	20.0	14.27		ug/L		71	38 - 124	4	30
Pentachlorobenzene	20.0	14.06		ug/L		70	40 - 123	1	30
Pentachloronitrobenzene	20.0	16.43		ug/L		82	40 - 120	0	30
Pentachlorophenol	20.0	17.49		ug/L		87	10 - 137	8	30
Phenacetin	20.0	16.66		ug/L		83	20 - 130	5	30
Phenanthrene	20.0	15.90		ug/L		79	39 - 126	0	30
Phenol	20.0	9.070		ug/L		45	15 - 106	3	30
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150	NC	30
Pronamide	20.0	18.59		ug/L		93	25 - 120	2	30
Pyrene	20.0	14.53		ug/L		73	40 - 130	1	30
Pyridine	20.0	5.554		ug/L		28	16 - 135	1	30
Safrole, Total	20.0	15.34		ug/L		77	40 - 120	0	30
Aramite Peak 2	10.0	9.219		ug/L		92	35 - 130	4	30
Isosafrole Peak 1	3.20	<2.46	U	ug/L		74	40 - 120	4	30
Diallate Peak 2	5.20	4.254	J	ug/L		82	38 - 130	4	30
Isosafrole Peak 2	16.8	12.90		ug/L		77	40 - 120	2	30
Diallate Peak 1	14.8	13.59		ug/L		92	38 - 130	1	30
Aramite Peak 1	10.0	9.416		ug/L		94	35 - 130	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	104		31 - 132
2-Fluorobiphenyl	88		40 - 130
2-Fluorophenol (Surr)	65		21 - 114
Nitrobenzene-d5 (Surr)	91		37 - 130
Phenol-d5 (Surr)	51		16 - 117
p-Terphenyl-d14	106		20 - 141

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61549-B-2-B MS

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	<0.428	U	20.0	9.685		ug/L		48	41 - 117
1,2,4,5-Tetrachlorobenzene	<0.672	U	20.0	9.629		ug/L		48	39 - 120
1,2,4-Trichlorobenzene	<0.680	U	20.0	9.918		ug/L		50	34 - 117
1,2-Dichlorobenzene	<0.296	U	20.0	10.35		ug/L		52	38 - 111
1,3,5-Trinitrobenzene	<1.43	U F1	20.0	13.52	F1	ug/L		68	70 - 130
1,3-Dichlorobenzene	<0.350	U	20.0	10.15		ug/L		51	37 - 111
1,3-Dinitrobenzene	<0.112	U	20.0	10.28		ug/L		51	36 - 131
1,4-Dichlorobenzene	<0.428	U	20.0	10.16		ug/L		51	37 - 111
1,4-Naphthoquinone	<1.85	U F1	20.0	10.56	F1	ug/L		53	70 - 130
1-Naphthylamine	<0.232	U	20.0	8.326		ug/L		42	40 - 120
2,2'-oxybis[1-chloropropane]	<0.139	U	20.0	11.25		ug/L		56	32 - 110
2,3,4,6-Tetrachlorophenol	<0.174	U	20.0	11.85		ug/L		59	33 - 132
2,4,5-Trichlorophenol	<0.108	U	20.0	11.54		ug/L		58	39 - 125
2,4,6-Trichlorophenol	<0.135	U	20.0	10.99		ug/L		55	42 - 125
2,4-Dichlorophenol	<0.115	U	20.0	10.26		ug/L		51	38 - 120
2,4-Dimethylphenol	<0.148	U	20.0	12.03		ug/L		60	39 - 117
2,4-Dinitrophenol	<1.46	U	20.0	11.43		ug/L		57	13 - 152
2,4-Dinitrotoluene	<0.127	U	20.0	12.16		ug/L		61	41 - 128
2,6-Dichlorophenol	<0.126	U	20.0	10.03		ug/L		50	42 - 118
2,6-Dinitrotoluene	<0.199	U	20.0	11.23		ug/L		56	42 - 127
2-Acetylaminofluorene	<1.52	U F1	20.0	13.57	F1	ug/L		68	70 - 130
2-Chloronaphthalene	<1.09	U	20.0	9.455		ug/L		47	40 - 118
2-Chlorophenol	<0.0135	U	20.0	9.964		ug/L		50	41 - 108
2-Methylnaphthalene	<0.480	U	20.0	10.51		ug/L		53	37 - 112
2-Methylphenol	<0.159	U	20.0	9.864		ug/L		49	36 - 125
2-Naphthylamine	<0.595	U F1	20.0	7.855	J F1	ug/L		39	40 - 120
2-Nitroaniline	<0.163	U	20.0	9.906		ug/L		50	34 - 126
2-Nitrophenol	<0.135	U	20.0	11.07		ug/L		55	38 - 125
2-Picoline	<0.215	U F2	20.0	3.674		ug/L		18	11 - 107
2-Toluidine	<0.934	U F1	20.0	9.762	F1	ug/L		49	70 - 130
3 & 4 Methylphenol	<0.163	U	20.0	8.706		ug/L		44	35 - 116
3,3'-Dichlorobenzidine	<0.220	U	20.0	12.05		ug/L		60	29 - 141
3,3'-Dimethylbenzidine	<0.444	U F2 *- F1	20.0	1.629	J F1	ug/L		8	70 - 130
3-Methylcholanthrene	<0.159	U	20.0	14.46		ug/L		72	20 - 130
3-Nitroaniline	<0.344	U	20.0	10.76		ug/L		54	42 - 123
4,6-Dinitro-2-methylphenol	<0.736	U	20.0	12.68		ug/L		63	12 - 157
4-Aminobiphenyl	<0.297	U	20.0	9.107		ug/L		46	20 - 130
4-Bromophenyl phenyl ether	<0.167	U	20.0	10.61		ug/L		53	40 - 126
4-Chloro-3-methylphenol	<0.157	U	20.0	10.57		ug/L		53	40 - 119
4-Chloroaniline	<0.149	U	20.0	9.398		ug/L		47	39 - 111
4-Chlorophenyl phenyl ether	<0.232	U	20.0	10.32		ug/L		52	40 - 122
4-Nitroaniline	<0.247	U	20.0	10.89		ug/L		54	42 - 125
4-Nitroquinoline-1-oxide	<2.15	U	20.0	14.43		ug/L		72	70 - 130
7,12-Dimethylbenz(a)anthracene	<0.0610	U	20.0	12.66		ug/L		63	40 - 120
Acenaphthene	<0.208	U	20.0	10.23		ug/L		51	41 - 118
Acenaphthylene	<0.215	U	20.0	10.55		ug/L		53	41 - 116
Acetophenone	<0.225	U	20.0	10.15		ug/L		51	23 - 125
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	20.0	<4.00	U F1	ug/L		0	70 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61549-B-2-B MS

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	<0.314	U	20.0	8.884		ug/L		44	31 - 120
Anthracene	<0.154	U	20.0	11.33		ug/L		57	39 - 127
Benzo[a]anthracene	<0.150	U	20.0	13.45		ug/L		67	40 - 129
Benzo[a]pyrene	<0.148	U	20.0	14.35		ug/L		72	36 - 141
Benzo[b]fluoranthene	<0.210	U	20.0	13.84		ug/L		69	34 - 139
Benzo[g,h,i]perylene	<0.143	U	20.0	14.70		ug/L		74	32 - 141
Benzo[k]fluoranthene	<0.166	U	20.0	13.40		ug/L		67	31 - 139
Benzyl alcohol	<4.50	U	20.0	11.20		ug/L		56	37 - 102
Bis(2-chloroethoxy)methane	<0.170	U	20.0	9.808		ug/L		49	36 - 113
Bis(2-chloroethyl)ether	<0.278	U	20.0	10.32		ug/L		52	38 - 111
Bis(2-ethylhexyl) phthalate	<0.225	U	20.0	13.32		ug/L		67	44 - 136
Butyl benzyl phthalate	<0.150	U	20.0	13.75		ug/L		69	44 - 133
Chrysene	<0.159	U	20.0	13.11		ug/L		66	41 - 124
Dibenz(a,h)anthracene	<0.148	U	20.0	15.51		ug/L		78	35 - 143
Dibenzofuran	<0.336	U	20.0	9.855		ug/L		49	41 - 119
Diethyl phthalate	<0.118	U	20.0	10.37		ug/L		52	41 - 125
Dimethyl phthalate	<0.143	U	20.0	10.49		ug/L		52	42 - 123
Di-n-butyl phthalate	<0.800	U	20.0	14.24		ug/L		71	41 - 133
Di-n-octyl phthalate	<0.169	U	20.0	15.29		ug/L		76	34 - 145
Diphenyl ether	<0.364	U	20.0	9.801		ug/L		49	
Ethyl methanesulfonate	<1.38	U F1	20.0	10.54	F1	ug/L		53	70 - 130
Fluoranthene	<0.148	U	20.0	14.00		ug/L		70	38 - 132
Fluorene	<0.205	U	20.0	10.21		ug/L		51	41 - 121
Hexachlorobenzene	<0.126	U	20.0	9.992		ug/L		50	39 - 128
Hexachlorobutadiene	<0.252	U	20.0	10.35		ug/L		52	31 - 120
Hexachlorocyclopentadiene	<0.431	U	20.0	11.91		ug/L		60	15 - 117
Hexachloroethane	<0.140	U	20.0	10.00		ug/L		50	37 - 109
Hexachloropropene	<0.213	U	20.0	10.01		ug/L		50	
Indeno[1,2,3-cd]pyrene	<0.852	U	20.0	15.18		ug/L		76	35 - 141
Isophorone	<0.168	U	20.0	10.90		ug/L		54	40 - 115
Methyl methanesulfonate	<0.0610	U F1	20.0	9.413	F1	ug/L		47	70 - 130
Naphthalene	<0.423	U	20.0	9.995		ug/L		50	37 - 113
Nitrobenzene	<0.934	U	20.0	10.35		ug/L		52	37 - 114
N-Nitro-o-toluidine	<1.31	U	20.0	11.31		ug/L		57	35 - 130
N-Nitrosodiethylamine	<1.54	U F1	20.0	10.93	F1	ug/L		55	70 - 130
N-Nitrosodimethylamine	<0.126	U	20.0	8.681		ug/L		43	28 - 127
N-Nitrosodi-n-butylamine	<1.54	U	20.0	8.677		ug/L		43	34 - 122
N-Nitrosodi-n-propylamine	<0.161	U	20.0	10.93		ug/L		55	38 - 117
N-Nitrosodiphenylamine	<0.155	U	20.0	10.87		ug/L		54	40 - 127
N-Nitrosomethylethylamine	<0.199	U	20.0	11.10		ug/L		55	28 - 126
N-Nitrosomorpholine	<1.44	U F1	20.0	11.13	F1	ug/L		56	70 - 130
N-Nitrosopiperidine	<1.44	U	20.0	10.84		ug/L		54	39 - 115
N-Nitrosopyrrolidine	<1.38	U	20.0	10.59		ug/L		53	36 - 121
p-Dimethylamino azobenzene	<0.0579	U	20.0	11.88		ug/L		59	38 - 124
Pentachlorobenzene	<1.18	U	20.0	10.01		ug/L		50	40 - 123
Pentachloronitrobenzene	<1.27	U	20.0	11.40		ug/L		57	40 - 120
Pentachlorophenol	<0.441	U	20.0	12.81		ug/L		64	10 - 137
Phenacetin	<1.32	U	20.0	12.42		ug/L		62	20 - 130
Phenanthrene	<0.176	U	20.0	10.88		ug/L		54	39 - 126

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61549-B-2-B MS

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	<0.202	U	20.0	6.276		ug/L		31	15 - 106
p-Phenylene diamine	<10.0	U *- F1	20.0	<10.0	U F1	ug/L		0	1 - 150
Pronamide	<1.39	U	20.0	13.34		ug/L		67	25 - 120
Pyrene	<0.159	U	20.0	12.11		ug/L		61	40 - 130
Pyridine	<0.725	U	20.0	3.628		ug/L		18	16 - 135
Safrole, Total	<0.183	U F1	20.0	10.33	F1	ug/L		52	70 - 130
Aramite Peak 2	<2.74	U	10.0	7.486		ug/L		75	
Isosafrole Peak 1	<2.46	U F1	3.20	<2.46	U F1	ug/L		0	70 - 130
Diallate Peak 2	<0.602	U F1	5.20	2.517	J F1	ug/L		48	70 - 130
Isosafrole Peak 2	<2.12	U F1	16.8	8.418	F1	ug/L		50	70 - 130
Diallate Peak 1	<0.675	U F1	14.8	7.947	J F1	ug/L		54	70 - 130
Aramite Peak 1	<0.670	U	10.0	7.726		ug/L		77	
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
2,4,6-Tribromophenol (Surr)	65		31 - 132						
2-Fluorobiphenyl	62		40 - 130						
2-Fluorophenol (Surr)	41		21 - 114						
Nitrobenzene-d5 (Surr)	59		37 - 130						
Phenol-d5 (Surr)	33		16 - 117						
p-Terphenyl-d14	84		20 - 141						

Lab Sample ID: 860-61549-B-2-C MSD

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	<0.428	U	20.0	9.258		ug/L		46	41 - 117	5	30
1,2,4,5-Tetrachlorobenzene	<0.672	U	20.0	8.980		ug/L		45	39 - 120	7	30
1,2,4-Trichlorobenzene	<0.680	U	20.0	9.413		ug/L		47	34 - 117	5	30
1,2-Dichlorobenzene	<0.296	U	20.0	9.128		ug/L		46	38 - 111	13	30
1,3,5-Trinitrobenzene	<1.43	U F1	20.0	16.42		ug/L		82	70 - 130	19	30
1,3-Dichlorobenzene	<0.350	U	20.0	9.159		ug/L		46	37 - 111	10	30
1,3-Dinitrobenzene	<0.112	U	20.0	11.99		ug/L		60	36 - 131	15	30
1,4-Dichlorobenzene	<0.428	U	20.0	9.125		ug/L		46	37 - 111	11	30
1,4-Naphthoquinone	<1.85	U F1	20.0	10.74	F1	ug/L		54	70 - 130	2	30
1-Naphthylamine	<0.232	U	20.0	9.111		ug/L		46	40 - 120	9	30
2,2'-oxybis[1-chloropropane]	<0.139	U	20.0	10.06		ug/L		50	32 - 110	11	30
2,3,4,6-Tetrachlorophenol	<0.174	U	20.0	13.95		ug/L		70	33 - 132	16	30
2,4,5-Trichlorophenol	<0.108	U	20.0	11.86		ug/L		59	39 - 125	3	30
2,4,6-Trichlorophenol	<0.135	U	20.0	11.11		ug/L		56	42 - 125	1	30
2,4-Dichlorophenol	<0.115	U	20.0	9.729		ug/L		49	38 - 120	5	30
2,4-Dimethylphenol	<0.148	U	20.0	11.77		ug/L		59	39 - 117	2	30
2,4-Dinitrophenol	<1.46	U	20.0	13.49		ug/L		67	13 - 152	17	30
2,4-Dinitrotoluene	<0.127	U	20.0	14.27		ug/L		71	41 - 128	16	30
2,6-Dichlorophenol	<0.126	U	20.0	9.484		ug/L		47	42 - 118	6	30
2,6-Dinitrotoluene	<0.199	U	20.0	12.00		ug/L		60	42 - 127	7	30
2-Acetylaminofluorene	<1.52	U F1	20.0	15.70		ug/L		78	70 - 130	14	30
2-Chloronaphthalene	<1.09	U	20.0	9.172		ug/L		46	40 - 118	3	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61549-B-2-C MSD

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chlorophenol	<0.0135	U	20.0	9.137		ug/L		46	41 - 108	9	30
2-Methylnaphthalene	<0.480	U	20.0	10.10		ug/L		51	37 - 112	4	30
2-Methylphenol	<0.159	U	20.0	8.818		ug/L		44	36 - 125	11	30
2-Naphthylamine	<0.595	U F1	20.0	9.123		ug/L		46	40 - 120	15	30
2-Nitroaniline	<0.163	U	20.0	10.42		ug/L		52	34 - 126	5	30
2-Nitrophenol	<0.135	U	20.0	10.52		ug/L		53	38 - 125	5	30
2-Picoline	<0.215	U F2	20.0	5.204	F2	ug/L		26	11 - 107	34	30
2-Toluidine	<0.934	U F1	20.0	8.886	F1	ug/L		44	70 - 130	9	30
3 & 4 Methylphenol	<0.163	U	20.0	8.068		ug/L		40	35 - 116	8	30
3,3'-Dichlorobenzidine	<0.220	U	20.0	15.07		ug/L		75	29 - 141	22	30
3,3'-Dimethylbenzidine	<0.444	U F2 *- F1	20.0	3.657	J F2 F1	ug/L		18	70 - 130	77	30
3-Methylcholanthrene	<0.159	U	20.0	16.57		ug/L		83	20 - 130	14	30
3-Nitroaniline	<0.344	U	20.0	12.53		ug/L		63	42 - 123	15	30
4,6-Dinitro-2-methylphenol	<0.736	U	20.0	15.57		ug/L		78	12 - 157	20	30
4-Aminobiphenyl	<0.297	U	20.0	11.28		ug/L		56	20 - 130	21	30
4-Bromophenyl phenyl ether	<0.167	U	20.0	11.95		ug/L		60	40 - 126	12	30
4-Chloro-3-methylphenol	<0.157	U	20.0	10.95		ug/L		55	40 - 119	4	30
4-Chloroaniline	<0.149	U	20.0	8.827		ug/L		44	39 - 111	6	30
4-Chlorophenyl phenyl ether	<0.232	U	20.0	10.79		ug/L		54	40 - 122	4	30
4-Nitroaniline	<0.247	U	20.0	13.59		ug/L		68	42 - 125	22	30
4-Nitroquinoline-1-oxide	<2.15	U	20.0	16.86		ug/L		84	70 - 130	16	30
7,12-Dimethylbenz(a)anthracene	<0.0610	U	20.0	14.49		ug/L		72	40 - 120	13	30
Acenaphthene	<0.208	U	20.0	10.13		ug/L		51	41 - 118	1	30
Acenaphthylene	<0.215	U	20.0	10.30		ug/L		51	41 - 116	2	30
Acetophenone	<0.225	U	20.0	9.280		ug/L		46	23 - 125	9	30
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	20.0	<4.00	U F1	ug/L		0	70 - 130	NC	
Aniline	<0.314	U	20.0	8.262		ug/L		41	31 - 120	7	30
Anthracene	<0.154	U	20.0	13.57		ug/L		68	39 - 127	18	30
Benzo[a]anthracene	<0.150	U	20.0	15.63		ug/L		78	40 - 129	15	30
Benzo[a]pyrene	<0.148	U	20.0	16.53		ug/L		83	36 - 141	14	30
Benzo[b]fluoranthene	<0.210	U	20.0	15.54		ug/L		78	34 - 139	12	30
Benzo[g,h,i]perylene	<0.143	U	20.0	17.30		ug/L		86	32 - 141	16	30
Benzo[k]fluoranthene	<0.166	U	20.0	15.37		ug/L		77	31 - 139	14	30
Benzyl alcohol	<4.50	U	20.0	9.770		ug/L		49	37 - 102	14	30
Bis(2-chloroethoxy)methane	<0.170	U	20.0	9.083		ug/L		45	36 - 113	8	30
Bis(2-chloroethyl)ether	<0.278	U	20.0	9.740		ug/L		49	38 - 111	6	30
Bis(2-ethylhexyl) phthalate	<0.225	U	20.0	15.54		ug/L		78	44 - 136	15	30
Butyl benzyl phthalate	<0.150	U	20.0	16.33		ug/L		82	44 - 133	17	30
Chrysene	<0.159	U	20.0	15.31		ug/L		77	41 - 124	16	30
Dibenz(a,h)anthracene	<0.148	U	20.0	18.02		ug/L		90	35 - 143	15	30
Dibenzofuran	<0.336	U	20.0	10.06		ug/L		50	41 - 119	2	30
Diethyl phthalate	<0.118	U	20.0	12.67		ug/L		63	41 - 125	20	30
Dimethyl phthalate	<0.143	U	20.0	11.33		ug/L		57	42 - 123	8	30
Di-n-butyl phthalate	<0.800	U	20.0	17.34		ug/L		87	41 - 133	20	30
Di-n-octyl phthalate	<0.169	U	20.0	16.99		ug/L		85	34 - 145	11	30
Diphenyl ether	<0.364	U	20.0	9.446		ug/L		47		4	30
Ethyl methanesulfonate	<1.38	U F1	20.0	9.614	F1	ug/L		48	70 - 130	9	30
Fluoranthene	<0.148	U	20.0	16.55		ug/L		83	38 - 132	17	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61549-B-2-C MSD

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluorene	<0.205	U	20.0	10.82		ug/L		54	41 - 121	6	30
Hexachlorobenzene	<0.126	U	20.0	11.95		ug/L		60	39 - 128	18	30
Hexachlorobutadiene	<0.252	U	20.0	9.555		ug/L		48	31 - 120	8	30
Hexachlorocyclopentadiene	<0.431	U	20.0	10.96		ug/L		55	15 - 117	8	30
Hexachloroethane	<0.140	U	20.0	9.337		ug/L		47	37 - 109	7	30
Hexachloropropene	<0.213	U	20.0	9.497		ug/L		47		5	30
Indeno[1,2,3-cd]pyrene	<0.852	U	20.0	17.51		ug/L		88	35 - 141	14	30
Isophorone	<0.168	U	20.0	10.17		ug/L		51	40 - 115	7	30
Methyl methanesulfonate	<0.0610	U F1	20.0	8.364	F1	ug/L		42	70 - 130	12	30
Naphthalene	<0.423	U	20.0	9.413		ug/L		47	37 - 113	6	30
Nitrobenzene	<0.934	U	20.0	9.656		ug/L		48	37 - 114	7	30
N-Nitro-o-toluidine	<1.31	U	20.0	13.60		ug/L		68	35 - 130	18	30
N-Nitrosodiethylamine	<1.54	U F1	20.0	9.839	F1	ug/L		49	70 - 130	11	30
N-Nitrosodimethylamine	<0.126	U	20.0	8.024		ug/L		40	28 - 127	8	30
N-Nitrosodi-n-butylamine	<1.54	U	20.0	8.671		ug/L		43	34 - 122	0	30
N-Nitrosodi-n-propylamine	<0.161	U	20.0	10.17		ug/L		51	38 - 117	7	30
N-Nitrosodiphenylamine	<0.155	U	20.0	12.87		ug/L		64	40 - 127	17	30
N-Nitrosomethylethylamine	<0.199	U	20.0	9.935		ug/L		50	28 - 126	11	30
N-Nitrosomorpholine	<1.44	U F1	20.0	10.38	F1	ug/L		52	70 - 130	7	30
N-Nitrosopiperidine	<1.44	U	20.0	9.886		ug/L		49	39 - 115	9	30
N-Nitrosopyrrolidine	<1.38	U	20.0	9.429		ug/L		47	36 - 121	12	30
p-Dimethylamino azobenzene	<0.0579	U	20.0	13.79		ug/L		69	38 - 124	15	30
Pentachlorobenzene	<1.18	U	20.0	9.621		ug/L		48	40 - 123	4	30
Pentachloronitrobenzene	<1.27	U	20.0	13.96		ug/L		70	40 - 120	20	30
Pentachlorophenol	<0.441	U	20.0	15.63		ug/L		78	10 - 137	20	30
Phenacetin	<1.32	U	20.0	14.60		ug/L		73	20 - 130	16	30
Phenanthrene	<0.176	U	20.0	12.97		ug/L		65	39 - 126	18	30
Phenol	<0.202	U	20.0	6.684		ug/L		33	15 - 106	6	30
p-Phenylene diamine	<10.0	U *- F1	20.0	<10.0	U F1	ug/L		0	1 - 150	NC	50
Pronamide	<1.39	U	20.0	16.87		ug/L		84	25 - 120	23	30
Pyrene	<0.159	U	20.0	14.11		ug/L		71	40 - 130	15	30
Pyridine	<0.725	U	20.0	4.720		ug/L		24	16 - 135	26	30
Safrole, Total	<0.183	U F1	20.0	9.617	F1	ug/L		48	70 - 130	7	30
Aramite Peak 2	<2.74	U	10.0	8.913		ug/L		89		17	30
Isosafrole Peak 1	<2.46	U F1	3.20	<2.46	U F1	ug/L		0	70 - 130	NC	30
Diallate Peak 2	<0.602	U F1	5.20	3.246	J F1	ug/L		62	70 - 130	25	30
Isosafrole Peak 2	<2.12	U F1	16.8	8.125	F1	ug/L		48	70 - 130	4	30
Diallate Peak 1	<0.675	U F1	14.8	9.639	F1	ug/L		65	70 - 130	19	30
Aramite Peak 1	<0.670	U	10.0	8.997		ug/L		90		15	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	76		31 - 132
2-Fluorobiphenyl	72		40 - 130
2-Fluorophenol (Surr)	40		21 - 114
Nitrobenzene-d5 (Surr)	58		37 - 130
Phenol-d5 (Surr)	31		16 - 117
p-Terphenyl-d14	96		20 - 141

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

GC/MS VOA

Analysis Batch: 131293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61601-3	MW-71	Total/NA	Water	8260D	
860-61601-4	MW-72	Total/NA	Water	8260D	
860-61601-6	MW-67	Total/NA	Water	8260D	
860-61601-7	RB-03	Total/NA	Water	8260D	
860-61601-8	MW-69	Total/NA	Water	8260D	
860-61601-9	FB-03	Total/NA	Water	8260D	
860-61601-10	MW-66	Total/NA	Water	8260D	
860-61601-11	MW-64	Total/NA	Water	8260D	
860-61601-12	DUPE-03	Total/NA	Water	8260D	
860-61601-13	TB-08 (111323)	Total/NA	Water	8260D	
MB 860-131293/9	Method Blank	Total/NA	Water	8260D	
LCS 860-131293/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-131293/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61298-A-1 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 131391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61601-1	MW-65	Total/NA	Water	8260D	
860-61601-2	MW-70	Total/NA	Water	8260D	
MB 860-131391/9	Method Blank	Total/NA	Water	8260D	
LCS 860-131391/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-131391/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61115-C-1 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 131517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61601-5	MW-68	Total/NA	Water	8260D	
MB 860-131517/10	Method Blank	Total/NA	Water	8260D	
LCS 860-131517/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-131517/4	Lab Control Sample Dup	Total/NA	Water	8260D	
400-246362-A-5 MS	Matrix Spike	Total/NA	Water	8260D	
400-246362-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 131724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61601-5 - RA	MW-68	Total/NA	Water	8260D	
MB 860-131724/11	Method Blank	Total/NA	Water	8260D	
LCS 860-131724/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-131724/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61601-5 MS	MW-68	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 131401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61601-1	MW-65	Total/NA	Water	3511	
860-61601-2	MW-70	Total/NA	Water	3511	
860-61601-3	MW-71	Total/NA	Water	3511	
860-61601-4	MW-72	Total/NA	Water	3511	
860-61601-5	MW-68	Total/NA	Water	3511	
860-61601-6	MW-67	Total/NA	Water	3511	

Eurofins Houston

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

GC/MS Semi VOA (Continued)

Prep Batch: 131401 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61601-7	RB-03	Total/NA	Water	3511	
860-61601-8	MW-69	Total/NA	Water	3511	
860-61601-10	MW-66	Total/NA	Water	3511	
860-61601-11	MW-64	Total/NA	Water	3511	
860-61601-12	DUPE-03	Total/NA	Water	3511	
MB 860-131401/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-131401/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-131401/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Prep Batch: 131552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61601-1	MW-65	Total/NA	Water	3510C	
860-61601-2	MW-70	Total/NA	Water	3510C	
860-61601-3	MW-71	Total/NA	Water	3510C	
860-61601-4	MW-72	Total/NA	Water	3510C	
860-61601-5	MW-68	Total/NA	Water	3510C	
860-61601-6	MW-67	Total/NA	Water	3510C	
860-61601-7	RB-03	Total/NA	Water	3510C	
860-61601-8	MW-69	Total/NA	Water	3510C	
860-61601-10 - DL	MW-66	Total/NA	Water	3510C	
860-61601-10	MW-66	Total/NA	Water	3510C	
860-61601-11	MW-64	Total/NA	Water	3510C	
860-61601-12 - DL	DUPE-03	Total/NA	Water	3510C	
860-61601-12	DUPE-03	Total/NA	Water	3510C	
MB 860-131552/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-131552/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-131552/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
860-61549-B-2-B MS	Matrix Spike	Total/NA	Water	3510C	
860-61549-B-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 131659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-131552/1-A	Method Blank	Total/NA	Water	8270E LL	131552
860-61549-B-2-B MS	Matrix Spike	Total/NA	Water	8270E LL	131552
860-61549-B-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270E LL	131552

Analysis Batch: 131720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61601-1	MW-65	Total/NA	Water	8270E LL	131552
860-61601-2	MW-70	Total/NA	Water	8270E LL	131552
860-61601-3	MW-71	Total/NA	Water	8270E LL	131552
860-61601-4	MW-72	Total/NA	Water	8270E LL	131552
860-61601-5	MW-68	Total/NA	Water	8270E LL	131552
860-61601-6	MW-67	Total/NA	Water	8270E LL	131552
860-61601-7	RB-03	Total/NA	Water	8270E LL	131552
860-61601-8	MW-69	Total/NA	Water	8270E LL	131552
860-61601-10	MW-66	Total/NA	Water	8270E LL	131552
860-61601-11	MW-64	Total/NA	Water	8270E LL	131552
860-61601-12	DUPE-03	Total/NA	Water	8270E LL	131552

Eurofins Houston

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

GC/MS Semi VOA

Analysis Batch: 131841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61601-10 - DL	MW-66	Total/NA	Water	8270E LL	131552
860-61601-12 - DL	DUPE-03	Total/NA	Water	8270E LL	131552
LCS 860-131552/2-A	Lab Control Sample	Total/NA	Water	8270E LL	131552
LCSD 860-131552/3-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	131552

Analysis Batch: 131865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61601-1	MW-65	Total/NA	Water	8270E	131401
860-61601-2	MW-70	Total/NA	Water	8270E	131401
860-61601-3	MW-71	Total/NA	Water	8270E	131401
860-61601-4	MW-72	Total/NA	Water	8270E	131401
860-61601-5	MW-68	Total/NA	Water	8270E	131401
860-61601-6	MW-67	Total/NA	Water	8270E	131401
860-61601-7	RB-03	Total/NA	Water	8270E	131401
860-61601-8	MW-69	Total/NA	Water	8270E	131401
860-61601-10	MW-66	Total/NA	Water	8270E	131401
860-61601-11	MW-64	Total/NA	Water	8270E	131401
860-61601-12	DUPE-03	Total/NA	Water	8270E	131401
MB 860-131401/1-A	Method Blank	Total/NA	Water	8270E	131401
LCS 860-131401/2-A	Lab Control Sample	Total/NA	Water	8270E	131401
LCSD 860-131401/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	131401

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-65

Date Collected: 11/13/23 12:39

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131391	11/16/23 23:57	A1S	EET HOU
Total/NA	Prep	3511			30.3 mL	2 mL	131401	11/16/23 11:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131865	11/20/23 21:47	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131552	11/17/23 08:38	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131720	11/18/23 13:42	T1S	EET HOU

Client Sample ID: MW-70

Date Collected: 11/13/23 12:43

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131391	11/16/23 23:16	A1S	EET HOU
Total/NA	Prep	3511			30.5 mL	2 mL	131401	11/16/23 11:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131865	11/20/23 22:17	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131552	11/17/23 08:38	DR	EET HOU
Total/NA	Analysis	8270E LL		20	1 mL	1 mL	131720	11/18/23 17:11	T1S	EET HOU

Client Sample ID: MW-71

Date Collected: 11/13/23 13:35

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131293	11/16/23 15:17	NA	EET HOU
Total/NA	Prep	3511			30.2 mL	2 mL	131401	11/16/23 11:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131865	11/20/23 22:47	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131552	11/17/23 08:38	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131720	11/18/23 14:03	T1S	EET HOU

Client Sample ID: MW-72

Date Collected: 11/13/23 13:40

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131293	11/16/23 13:55	NA	EET HOU
Total/NA	Prep	3511			30 mL	2 mL	131401	11/16/23 11:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131865	11/20/23 23:16	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131552	11/17/23 08:38	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131720	11/18/23 14:24	T1S	EET HOU

Client Sample ID: MW-68

Date Collected: 11/13/23 14:32

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		5	5 mL	5 mL	131517	11/17/23 15:22	NA	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-68

Date Collected: 11/13/23 14:32

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	5	5 mL	5 mL	131724	11/18/23 16:16	AN	EET HOU
Total/NA	Prep	3511			30.6 mL	2 mL	131401	11/16/23 11:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131865	11/20/23 23:45	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131552	11/17/23 08:38	DR	EET HOU
Total/NA	Analysis	8270E LL		20	1 mL	1 mL	131720	11/18/23 17:32	T1S	EET HOU

Client Sample ID: MW-67

Date Collected: 11/13/23 14:38

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131293	11/16/23 12:54	NA	EET HOU
Total/NA	Prep	3511			30 mL	2 mL	131401	11/16/23 11:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131865	11/21/23 00:15	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131552	11/17/23 08:38	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131720	11/18/23 14:45	T1S	EET HOU

Client Sample ID: RB-03

Date Collected: 11/13/23 14:59

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131293	11/16/23 13:14	NA	EET HOU
Total/NA	Prep	3511			30 mL	2 mL	131401	11/16/23 11:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131865	11/21/23 00:45	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131552	11/17/23 08:38	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131720	11/18/23 15:06	T1S	EET HOU

Client Sample ID: MW-69

Date Collected: 11/13/23 15:42

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131293	11/16/23 13:35	NA	EET HOU
Total/NA	Prep	3511			30.2 mL	2 mL	131401	11/16/23 11:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131865	11/21/23 01:14	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131552	11/17/23 08:38	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131720	11/18/23 15:26	T1S	EET HOU

Client Sample ID: FB-03

Date Collected: 11/13/23 15:42

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131293	11/16/23 10:51	NA	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Client Sample ID: MW-66

Date Collected: 11/13/23 15:50

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		50	5 mL	5 mL	131293	11/16/23 16:19	NA	EET HOU
Total/NA	Prep	3511			30 mL	2 mL	131401	11/16/23 11:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131865	11/21/23 01:44	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131552	11/17/23 08:38	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131720	11/18/23 15:47	T1S	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	131552	11/17/23 08:38	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	10	1 mL	1 mL	131841	11/20/23 14:20	EM	EET HOU

Client Sample ID: MW-64

Date Collected: 11/13/23 16:52

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		50	5 mL	5 mL	131293	11/16/23 16:39	NA	EET HOU
Total/NA	Prep	3511			29.7 mL	2 mL	131401	11/16/23 11:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131865	11/21/23 02:13	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131552	11/17/23 08:38	DR	EET HOU
Total/NA	Analysis	8270E LL		20	1 mL	1 mL	131720	11/18/23 17:52	T1S	EET HOU

Client Sample ID: DUPE-03

Date Collected: 11/13/23 00:00

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		50	5 mL	5 mL	131293	11/16/23 15:38	NA	EET HOU
Total/NA	Prep	3511			30.1 mL	2 mL	131401	11/16/23 11:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131865	11/21/23 02:42	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131552	11/17/23 08:38	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131720	11/18/23 16:08	T1S	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	131552	11/17/23 08:38	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	10	1 mL	1 mL	131841	11/20/23 14:41	EM	EET HOU

Client Sample ID: TB-08 (111323)

Date Collected: 11/13/23 00:00

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61601-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131293	11/16/23 10:30	NA	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Eurofins Houston

Accreditation/Certification Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

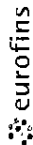
Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61601-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-61601-1	MW-65	Water	11/13/23 12:39	11/15/23 09:50
860-61601-2	MW-70	Water	11/13/23 12:43	11/15/23 09:50
860-61601-3	MW-71	Water	11/13/23 13:35	11/15/23 09:50
860-61601-4	MW-72	Water	11/13/23 13:40	11/15/23 09:50
860-61601-5	MW-68	Water	11/13/23 14:32	11/15/23 09:50
860-61601-6	MW-67	Water	11/13/23 14:38	11/15/23 09:50
860-61601-7	RB-03	Water	11/13/23 14:59	11/15/23 09:50
860-61601-8	MW-69	Water	11/13/23 15:42	11/15/23 09:50
860-61601-9	FB-03	Water	11/13/23 15:42	11/15/23 09:50
860-61601-10	MW-66	Water	11/13/23 15:50	11/15/23 09:50
860-61601-11	MW-64	Water	11/13/23 16:52	11/15/23 09:50
860-61601-12	DUPE-03	Water	11/13/23 00:00	11/15/23 09:50
860-61601-13	TB-08 (111323)	Water	11/13/23 00:00	11/15/23 09:50

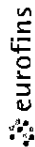
242 #2

Chain of Custody Record



Client Information		Lab PM:		Carrier Tracking No(s):		COC No:	
Company: ARCADIS US Inc		Lab PM: Kudchadkar Sachin G		Carrier Tracking No(s): 860-23558-8445.1		COC No:	
Address: 4300 West Cypress Street Suite 450		Phone: 225-205-0000		State of Origin: LA		Page: 102	
City: Tampa		E-Mail: Sachin.Kudchadkar@et.eurofinsus.com		Job #:		Page: 102	
State, Zip: FL, 33607		PWSID: 225-205-0000		Job #:		Page: 102	
Phone:		Due Date Requested:		TAT Requested (days):		Preservation Codes:	
Email: antonio.cardoso@arcadis.com		Compliance Project: Δ Yes Δ No		PO #:		M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2SO3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Y Trizma Z other (specify)	
Project Name: Hercules Hattiesburg, MS		Project #: 86008085		WO #:		A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other:	
Site:		SSONW#:		Field Filtered Sample (Yes or No)		8270E SIM ID P5 1,4 Dioxane	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
MW-65		11/13/23		1239		G	
MW-70		"		1243		G	
MW-71		"		1335		G	
MW-72		"		1340		G	
MW-68		"		1432		G	
MW-67		"		1438		G	
RB-03		"		1459		G	
MW-69		"		1542		G	
FB-03		"		1542		G	
MW-66		"		1550		G	
MW-64		"		1652		G	
Possible Hazard Identification		Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐		Date:		Time:	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:		Date:		Time:		Company:	
Relinquished by:		Date:		Time:		Company:	
Relinquished by:		Date:		Time:		Company:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:			

Chain of Custody Record



177 es ng

Client Information Client Contact: Mr. Antonio Cardoso Company: ARCADIS US Inc Address: 4300 West Cypress Street Suite 450 City: Tampa State, Zip: FL, 33607 Phone: _____ Email: antonio.cardoso@arcadis.com Project Name: Hercules Hattiesburg MS Site: _____		Sampler: <i>K. Mendez</i> Phone: <i>225-205-8246</i> Lab. PM: <i>K. Mendez</i> E-Mail: <i>Sachin.Kudchadkar@eurofins.com</i> Sachin.Kudchadkar@eurofins.com		Carrier Tracking No(s): 860-23558-8445.1 State of Origin: _____ Page: 20/22 Job #: _____	
Due Date Requested: _____ TAT Requested (days): _____ Compliance Project: ☐ Yes ☐ No PO #: _____ WO #: _____ Project #: 86006085 SOW#: _____		Analysis Requested			
Sample Identification <i>DUP-03</i> <i>TB-08 (11/3/23)</i>		Sample Date <i>11/13/23</i>	Sample Time <i>1</i>	Sample Type <i>G=grab</i>	Matrix <i>Water</i>
Field Filled Sample (Yes or No) ☒ Yes ☐ No 8270E SIM, 10, DS 1,4 Dioxane 8270E LL Appendix 9 SVOCs 8260D Appendix 9 VOCs		Preservation Code: <i>W</i> <i>W</i> <i>W</i>	Total Number of Containers <i>7</i>	Special Instructions/Note: _____	
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I II III IV Other (specify) _____					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Empty Kit Relinquished by Relinquished by: _____ Date: <i>11/14/23</i> Time: <i>1530</i> Relinquished by: <i>Fedex</i> Date: <i>11/15/23</i> Time: <i>950</i> Relinquished by: _____ Date: _____ Time: _____					
Custody Seals Intact: ☒ Yes ☐ No Special Instructions/OC Requirements: _____					

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-61601-1

Login Number: 61601

List Number: 1

Creator: Rubio, Yuri

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

ANALYTICAL REPORT

PREPARED FOR

Attn: Timothy Hassett
Ashland LLC
Ashland Hercules Research Center
500 Hercules Rd Bldg 8145
Wilmington, Delaware 19808

Generated 11/29/2023 10:09:36 PM

JOB DESCRIPTION

Hercules Hattiesburg, MS

JOB NUMBER

860-61632-1

Eurofins Houston

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Definitions/Glossary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Job ID: 860-61632-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-61632-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/15/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 860-131293 recovered above the upper control limit for 1,4-Dioxane (56%), Isobutyl alcohol (33.5%) and Isopropyl alcohol (43.1%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-131293/2).

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 860-131293 recovered outside control limits for the following analytes: 1,4-Dioxane, Isobutyl alcohol and Isopropyl alcohol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-131293 were outside control limits. Sample matrix interference is suspected.

Method 8260D: The following sample was diluted due to the nature of the sample matrix: MW-43 (860-61632-2). Elevated reporting limits (RLs) are provided. Note, sample matrix was cloudy with floating particulates.

Method 8260D: The following sample was diluted due to floating particles and cloudy appearance: MW-47 (860-61632-1). Elevated reporting limits (RL) are provided.

Method 8260D: The following sample was diluted due to floating particles and cloudy appearance: MW-47 (860-61632-1). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270E_LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-131552 and analytical batch 860-131659 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270E_LL: The continuing calibration verification (CCV) associated with batch 860-131720 recovered above the upper control limit for 2,4,6-Tribromophenol and p-Terphenyl-d14. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E_LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-131552 and analytical batch 860-131841 recovered outside control limits for the following analyte(s): 3,3'-Dimethylbenzidine and p-Phenylene diamine. 3,3'-Dimethylbenzidine and p-Phenylene diamine have been identified as a poor performing analyte when analyzed

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Job ID: 860-61632-1 (Continued)

Laboratory: Eurofins Houston (Continued)

using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Client Sample ID: MW-47

Lab Sample ID: 860-61632-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	20.6		2.00	0.800	ug/L	1		8270E LL	Total/NA
1,4-Dioxane	12.0		0.651	0.171	ug/L	1		8270E	Total/NA

Client Sample ID: MW-43

Lab Sample ID: 860-61632-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.94	J	2.00	0.919	ug/L	2		8260D	Total/NA
Acenaphthene	1.39	J	2.00	0.208	ug/L	1		8270E LL	Total/NA
Di-n-butyl phthalate	24.6		2.00	0.800	ug/L	1		8270E LL	Total/NA
Fluorene	0.593	J	2.00	0.205	ug/L	1		8270E LL	Total/NA
1,4-Dioxane	6.27		0.671	0.176	ug/L	1		8270E	Total/NA

Client Sample ID: TB-07 (111323)

Lab Sample ID: 860-61632-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Client Sample ID: MW-47

Lab Sample ID: 860-61632-1

Date Collected: 11/13/23 10:51

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.29	U	2.00	1.29	ug/L			11/16/23 14:36	2
1,1,1-Trichloroethane	<1.17	U	10.0	1.17	ug/L			11/16/23 14:36	2
1,1,2,2-Tetrachloroethane	<0.940	U	2.00	0.940	ug/L			11/16/23 14:36	2
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.22	U	20.0	2.22	ug/L			11/16/23 14:36	2
1,1,2-Trichloroethane	<0.822	U	2.00	0.822	ug/L			11/16/23 14:36	2
1,1-Dichloroethane	<1.27	U	2.00	1.27	ug/L			11/16/23 14:36	2
1,1-Dichloroethene	<1.48	U	2.00	1.48	ug/L			11/16/23 14:36	2
1,2,3-Trichloropropane	<0.940	U	2.00	0.940	ug/L			11/16/23 14:36	2
1,2,4-Trimethylbenzene	<0.834	U	2.00	0.834	ug/L			11/16/23 14:36	2
1,2-Dibromo-3-Chloropropane	<1.34	U	10.0	1.34	ug/L			11/16/23 14:36	2
1,2-Dibromoethane	<2.00	U	10.0	2.00	ug/L			11/16/23 14:36	2
1,2-Dichloroethane	<0.744	U	2.00	0.744	ug/L			11/16/23 14:36	2
1,2-Dichloropropane	<1.11	U	10.0	1.11	ug/L			11/16/23 14:36	2
1,3,5-Trimethylbenzene	<0.822	U	2.00	0.822	ug/L			11/16/23 14:36	2
1,3-Butadiene	<1.14	U	2.00	1.14	ug/L			11/16/23 14:36	2
2,2,4-Trimethylpentane	<1.00	U	10.0	1.00	ug/L			11/16/23 14:36	2
2-Butanone (MEK)	<16.6	U	100	16.6	ug/L			11/16/23 14:36	2
2-Hexanone (MBK)	<14.9	U	100	14.9	ug/L			11/16/23 14:36	2
2-Propanol	<10.5	U **	20.0	10.5	ug/L			11/16/23 14:36	2
3-Chloropropene (Allyl Chloride)	<1.19	U	10.0	1.19	ug/L			11/16/23 14:36	2
4-Methyl-2-pentanone	<15.0	U	100	15.0	ug/L			11/16/23 14:36	2
Acetone	<6.13	U	200	6.13	ug/L			11/16/23 14:36	2
Acetonitrile	<29.2	U	200	29.2	ug/L			11/16/23 14:36	2
Acrolein	<22.2	U	100	22.2	ug/L			11/16/23 14:36	2
Acrylonitrile	<28.6	U	100	28.6	ug/L			11/16/23 14:36	2
alpha-Chlorotoluene	<4.51	U	10.0	4.51	ug/L			11/16/23 14:36	2
Benzene	<0.919	U	2.00	0.919	ug/L			11/16/23 14:36	2
Bromodichloromethane	<1.10	U	2.00	1.10	ug/L			11/16/23 14:36	2
Bromoform	<1.27	U	10.0	1.27	ug/L			11/16/23 14:36	2
Bromomethane	<2.84	U	10.0	2.84	ug/L			11/16/23 14:36	2
Carbon disulfide	<3.30	U	10.0	3.30	ug/L			11/16/23 14:36	2
Carbon tetrachloride	<1.79	U	10.0	1.79	ug/L			11/16/23 14:36	2
Chlorobenzene	<0.910	U	2.00	0.910	ug/L			11/16/23 14:36	2
Chlorodibromomethane	<1.09	U	10.0	1.09	ug/L			11/16/23 14:36	2
Chloroethane	<3.97	U	20.0	3.97	ug/L			11/16/23 14:36	2
Chloroform	<0.928	U	2.00	0.928	ug/L			11/16/23 14:36	2
Chloromethane	<4.07	U	20.0	4.07	ug/L			11/16/23 14:36	2
Chloroprene	<1.20	U	10.0	1.20	ug/L			11/16/23 14:36	2
cis-1,2-Dichloroethene	<0.914	U	2.00	0.914	ug/L			11/16/23 14:36	2
cis-1,3-Dichloropropene	<2.13	U	10.0	2.13	ug/L			11/16/23 14:36	2
Cumene (isopropylbenzene)	<1.18	U	2.00	1.18	ug/L			11/16/23 14:36	2
Cyclohexane	<2.57	U	10.0	2.57	ug/L			11/16/23 14:36	2
Dibromomethane	<0.714	U	2.00	0.714	ug/L			11/16/23 14:36	2
Dichlorodifluoromethane	<1.57	U	2.00	1.57	ug/L			11/16/23 14:36	2
Ethyl methacrylate	<2.24	U	10.0	2.24	ug/L			11/16/23 14:36	2
Ethylbenzene	<0.770	U	2.00	0.770	ug/L			11/16/23 14:36	2
Hexane	<1.03	U	10.0	1.03	ug/L			11/16/23 14:36	2
Iodomethane	<13.0	U	40.0	13.0	ug/L			11/16/23 14:36	2
Isobutanol	<34.2	U **	100	34.2	ug/L			11/16/23 14:36	2

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Client Sample ID: MW-47

Lab Sample ID: 860-61632-1

Date Collected: 11/13/23 10:51

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<5.43	U	20.0	5.43	ug/L			11/16/23 14:36	2
Methyl methacrylate	<4.50	U	20.0	4.50	ug/L			11/16/23 14:36	2
Methyl tert-butyl ether	<2.78	U	10.0	2.78	ug/L			11/16/23 14:36	2
Methylene Chloride	<3.45	U	10.0	3.45	ug/L			11/16/23 14:36	2
Propionitrile	<6.68	U	20.0	6.68	ug/L			11/16/23 14:36	2
Propylbenzene	<0.858	U	2.00	0.858	ug/L			11/16/23 14:36	2
Styrene	<1.24	U	2.00	1.24	ug/L			11/16/23 14:36	2
Tetrachloroethene	<1.31	U	2.00	1.31	ug/L			11/16/23 14:36	2
Tetrahydrofuran	<3.67	U	20.0	3.67	ug/L			11/16/23 14:36	2
Toluene	<0.950	U	2.00	0.950	ug/L			11/16/23 14:36	2
trans-1,2-Dichloroethene	<0.736	U	2.00	0.736	ug/L			11/16/23 14:36	2
trans-1,3-Dichloropropene	<2.53	U	10.0	2.53	ug/L			11/16/23 14:36	2
trans-1,4-Dichloro-2-butene	<2.70	U	20.0	2.70	ug/L			11/16/23 14:36	2
Trichloroethene	<3.00	U	10.0	3.00	ug/L			11/16/23 14:36	2
Trichlorofluoromethane	<1.12	U	2.00	1.12	ug/L			11/16/23 14:36	2
Vinyl acetate	<4.28	U	40.0	4.28	ug/L			11/16/23 14:36	2
Vinyl chloride	<0.856	U	4.00	0.856	ug/L			11/16/23 14:36	2
Xylenes, Total	<2.48	U	20.0	2.48	ug/L			11/16/23 14:36	2
m,p-Xylenes	<0.00248	U	0.0200	0.00248	mg/L			11/16/23 14:36	2
o-Xylene	<0.00100	U	0.00200	0.00100	mg/L			11/16/23 14:36	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/16/23 14:36	2
4-Bromofluorobenzene (Surr)	97		74 - 124		11/16/23 14:36	2
Dibromofluoromethane (Surr)	102		75 - 131		11/16/23 14:36	2
Toluene-d8 (Surr)	102		80 - 120		11/16/23 14:36	2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/17/23 10:57	2
4-Bromofluorobenzene (Surr)	101		74 - 124		11/17/23 10:57	2
Dibromofluoromethane (Surr)	96		75 - 131		11/17/23 10:57	2
Toluene-d8 (Surr)	99		80 - 120		11/17/23 10:57	2

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 16:29	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/17/23 08:38	11/18/23 16:29	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/17/23 08:38	11/18/23 16:29	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/17/23 08:38	11/18/23 16:29	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/17/23 08:38	11/18/23 16:29	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/17/23 08:38	11/18/23 16:29	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/17/23 08:38	11/18/23 16:29	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 16:29	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/17/23 08:38	11/18/23 16:29	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 16:29	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/17/23 08:38	11/18/23 16:29	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/17/23 08:38	11/18/23 16:29	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/17/23 08:38	11/18/23 16:29	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 16:29	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Client Sample ID: MW-47

Lab Sample ID: 860-61632-1

Date Collected: 11/13/23 10:51

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/17/23 08:38	11/18/23 16:29	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 16:29	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/17/23 08:38	11/18/23 16:29	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/17/23 08:38	11/18/23 16:29	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 16:29	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 16:29	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/17/23 08:38	11/18/23 16:29	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/17/23 08:38	11/18/23 16:29	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/17/23 08:38	11/18/23 16:29	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/17/23 08:38	11/18/23 16:29	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 16:29	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/17/23 08:38	11/18/23 16:29	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/17/23 08:38	11/18/23 16:29	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 16:29	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 16:29	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/17/23 08:38	11/18/23 16:29	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/17/23 08:38	11/18/23 16:29	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/17/23 08:38	11/18/23 16:29	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/17/23 08:38	11/18/23 16:29	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/17/23 08:38	11/18/23 16:29	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/17/23 08:38	11/18/23 16:29	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/17/23 08:38	11/18/23 16:29	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/17/23 08:38	11/18/23 16:29	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/17/23 08:38	11/18/23 16:29	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/17/23 08:38	11/18/23 16:29	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/17/23 08:38	11/18/23 16:29	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 16:29	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/17/23 08:38	11/18/23 16:29	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/17/23 08:38	11/18/23 16:29	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/17/23 08:38	11/18/23 16:29	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/17/23 08:38	11/18/23 16:29	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 16:29	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/17/23 08:38	11/18/23 16:29	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/17/23 08:38	11/18/23 16:29	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/17/23 08:38	11/18/23 16:29	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/17/23 08:38	11/18/23 16:29	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 16:29	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 16:29	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 16:29	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/17/23 08:38	11/18/23 16:29	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 16:29	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/17/23 08:38	11/18/23 16:29	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/17/23 08:38	11/18/23 16:29	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/17/23 08:38	11/18/23 16:29	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/17/23 08:38	11/18/23 16:29	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/17/23 08:38	11/18/23 16:29	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 16:29	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 16:29	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 16:29	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Client Sample ID: MW-47

Lab Sample ID: 860-61632-1

Date Collected: 11/13/23 10:51

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 16:29	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/17/23 08:38	11/18/23 16:29	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/17/23 08:38	11/18/23 16:29	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/17/23 08:38	11/18/23 16:29	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 16:29	1
Di-n-butyl phthalate	20.6		2.00	0.800	ug/L		11/17/23 08:38	11/18/23 16:29	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/17/23 08:38	11/18/23 16:29	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/17/23 08:38	11/18/23 16:29	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/17/23 08:38	11/18/23 16:29	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/17/23 08:38	11/18/23 16:29	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 16:29	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/17/23 08:38	11/18/23 16:29	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/17/23 08:38	11/18/23 16:29	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 16:29	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/17/23 08:38	11/18/23 16:29	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 16:29	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/17/23 08:38	11/18/23 16:29	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/17/23 08:38	11/18/23 16:29	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/17/23 08:38	11/18/23 16:29	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/17/23 08:38	11/18/23 16:29	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/17/23 08:38	11/18/23 16:29	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/17/23 08:38	11/18/23 16:29	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 16:29	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/17/23 08:38	11/18/23 16:29	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/17/23 08:38	11/18/23 16:29	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/17/23 08:38	11/18/23 16:29	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/17/23 08:38	11/18/23 16:29	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/17/23 08:38	11/18/23 16:29	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/17/23 08:38	11/18/23 16:29	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/17/23 08:38	11/18/23 16:29	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 16:29	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/17/23 08:38	11/18/23 16:29	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/17/23 08:38	11/18/23 16:29	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/17/23 08:38	11/18/23 16:29	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 16:29	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 16:29	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 16:29	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 16:29	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 16:29	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 16:29	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/17/23 08:38	11/18/23 16:29	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/17/23 08:38	11/18/23 16:29	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/17/23 08:38	11/18/23 16:29	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/17/23 08:38	11/18/23 16:29	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/17/23 08:38	11/18/23 16:29	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/17/23 08:38	11/18/23 16:29	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/17/23 08:38	11/18/23 16:29	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/17/23 08:38	11/18/23 16:29	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/17/23 08:38	11/18/23 16:29	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Client Sample ID: MW-47

Lab Sample ID: 860-61632-1

Date Collected: 11/13/23 10:51

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 16:29	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/17/23 08:38	11/18/23 16:29	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/17/23 08:38	11/18/23 16:29	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/17/23 08:38	11/18/23 16:29	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/17/23 08:38	11/18/23 16:29	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/17/23 08:38	11/18/23 16:29	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 16:29	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 16:29	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/17/23 08:38	11/18/23 16:29	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/17/23 08:38	11/18/23 16:29	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	49		31 - 132	11/17/23 08:38	11/18/23 16:29	1
2-Fluorobiphenyl	52		40 - 130	11/17/23 08:38	11/18/23 16:29	1
2-Fluorophenol (Surr)	31		21 - 114	11/17/23 08:38	11/18/23 16:29	1
Nitrobenzene-d5 (Surr)	44		37 - 130	11/17/23 08:38	11/18/23 16:29	1
Phenol-d5 (Surr)	19		16 - 117	11/17/23 08:38	11/18/23 16:29	1
p-Terphenyl-d14	77		20 - 141	11/17/23 08:38	11/18/23 16:29	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	12.0		0.651	0.171	ug/L		11/16/23 11:57	11/20/23 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	71		37 - 133	11/16/23 11:57	11/20/23 19:50	1

Client Sample ID: MW-43

Lab Sample ID: 860-61632-2

Date Collected: 11/13/23 10:55

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.29	U	2.00	1.29	ug/L			11/16/23 20:52	2
1,1,1-Trichloroethane	<1.17	U	10.0	1.17	ug/L			11/16/23 20:52	2
1,1,2,2-Tetrachloroethane	<0.940	U	2.00	0.940	ug/L			11/16/23 20:52	2
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.22	U	20.0	2.22	ug/L			11/16/23 20:52	2
1,1,2-Trichloroethane	<0.822	U	2.00	0.822	ug/L			11/16/23 20:52	2
1,1-Dichloroethane	<1.27	U	2.00	1.27	ug/L			11/16/23 20:52	2
1,1-Dichloroethene	<1.48	U	2.00	1.48	ug/L			11/16/23 20:52	2
1,2,3-Trichloropropane	<0.940	U	2.00	0.940	ug/L			11/16/23 20:52	2
1,2,4-Trimethylbenzene	<0.834	U	2.00	0.834	ug/L			11/16/23 20:52	2
1,2-Dibromo-3-Chloropropane	<1.34	U	10.0	1.34	ug/L			11/16/23 20:52	2
1,2-Dibromoethane	<2.00	U	10.0	2.00	ug/L			11/16/23 20:52	2
1,2-Dichloroethane	<0.744	U	2.00	0.744	ug/L			11/16/23 20:52	2
1,2-Dichloropropane	<1.11	U	10.0	1.11	ug/L			11/16/23 20:52	2
1,3,5-Trimethylbenzene	<0.822	U	2.00	0.822	ug/L			11/16/23 20:52	2
1,3-Butadiene	<1.14	U	2.00	1.14	ug/L			11/16/23 20:52	2
2,2,4-Trimethylpentane	<1.00	U	10.0	1.00	ug/L			11/16/23 20:52	2
2-Butanone (MEK)	<16.6	U	100	16.6	ug/L			11/16/23 20:52	2
2-Hexanone (MBK)	<14.9	U	100	14.9	ug/L			11/16/23 20:52	2

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Client Sample ID: MW-43

Lab Sample ID: 860-61632-2

Date Collected: 11/13/23 10:55

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Propanol	<10.5	U	20.0	10.5	ug/L			11/16/23 20:52	2
3-Chloropropene (Allyl Chloride)	<1.19	U	10.0	1.19	ug/L			11/16/23 20:52	2
4-Methyl-2-pentanone	<15.0	U	100	15.0	ug/L			11/16/23 20:52	2
Acetone	<6.13	U	200	6.13	ug/L			11/16/23 20:52	2
Acetonitrile	<29.2	U	200	29.2	ug/L			11/16/23 20:52	2
Acrolein	<22.2	U	100	22.2	ug/L			11/16/23 20:52	2
Acrylonitrile	<28.6	U	100	28.6	ug/L			11/16/23 20:52	2
alpha-Chlorotoluene	<4.51	U	10.0	4.51	ug/L			11/16/23 20:52	2
Benzene	1.94	J	2.00	0.919	ug/L			11/16/23 20:52	2
Bromodichloromethane	<1.10	U	2.00	1.10	ug/L			11/16/23 20:52	2
Bromoform	<1.27	U	10.0	1.27	ug/L			11/16/23 20:52	2
Bromomethane	<2.84	U	10.0	2.84	ug/L			11/16/23 20:52	2
Carbon disulfide	<3.30	U	10.0	3.30	ug/L			11/16/23 20:52	2
Carbon tetrachloride	<1.79	U	10.0	1.79	ug/L			11/16/23 20:52	2
Chlorobenzene	<0.910	U	2.00	0.910	ug/L			11/16/23 20:52	2
Chlorodibromomethane	<1.09	U	10.0	1.09	ug/L			11/16/23 20:52	2
Chloroethane	<3.97	U	20.0	3.97	ug/L			11/16/23 20:52	2
Chloroform	<0.928	U	2.00	0.928	ug/L			11/16/23 20:52	2
Chloromethane	<4.07	U	20.0	4.07	ug/L			11/16/23 20:52	2
Chloroprene	<1.20	U	10.0	1.20	ug/L			11/16/23 20:52	2
cis-1,2-Dichloroethene	<0.914	U	2.00	0.914	ug/L			11/16/23 20:52	2
cis-1,3-Dichloropropene	<2.13	U	10.0	2.13	ug/L			11/16/23 20:52	2
Cumene (isopropylbenzene)	<1.18	U	2.00	1.18	ug/L			11/16/23 20:52	2
Cyclohexane	<2.57	U	10.0	2.57	ug/L			11/16/23 20:52	2
Dibromomethane	<0.714	U	2.00	0.714	ug/L			11/16/23 20:52	2
Dichlorodifluoromethane	<1.57	U	2.00	1.57	ug/L			11/16/23 20:52	2
Ethyl methacrylate	<2.24	U	10.0	2.24	ug/L			11/16/23 20:52	2
Ethylbenzene	<0.770	U	2.00	0.770	ug/L			11/16/23 20:52	2
Hexane	<1.03	U	10.0	1.03	ug/L			11/16/23 20:52	2
Iodomethane	<13.0	U	40.0	13.0	ug/L			11/16/23 20:52	2
Isobutanol	<34.2	U	100	34.2	ug/L			11/16/23 20:52	2
Methacrylonitrile	<5.43	U	20.0	5.43	ug/L			11/16/23 20:52	2
Methyl methacrylate	<4.50	U	20.0	4.50	ug/L			11/16/23 20:52	2
Methyl tert-butyl ether	<2.78	U	10.0	2.78	ug/L			11/16/23 20:52	2
Methylene Chloride	<3.45	U	10.0	3.45	ug/L			11/16/23 20:52	2
Propionitrile	<6.68	U	20.0	6.68	ug/L			11/16/23 20:52	2
Propylbenzene	<0.858	U	2.00	0.858	ug/L			11/16/23 20:52	2
Styrene	<1.24	U	2.00	1.24	ug/L			11/16/23 20:52	2
Tetrachloroethene	<1.31	U	2.00	1.31	ug/L			11/16/23 20:52	2
Tetrahydrofuran	<3.67	U	20.0	3.67	ug/L			11/16/23 20:52	2
Toluene	<0.950	U	2.00	0.950	ug/L			11/16/23 20:52	2
trans-1,2-Dichloroethene	<0.736	U	2.00	0.736	ug/L			11/16/23 20:52	2
trans-1,3-Dichloropropene	<2.53	U	10.0	2.53	ug/L			11/16/23 20:52	2
trans-1,4-Dichloro-2-butene	<2.70	U	20.0	2.70	ug/L			11/16/23 20:52	2
Trichloroethene	<3.00	U	10.0	3.00	ug/L			11/16/23 20:52	2
Trichlorofluoromethane	<1.12	U	2.00	1.12	ug/L			11/16/23 20:52	2
Vinyl acetate	<4.28	U	40.0	4.28	ug/L			11/16/23 20:52	2
Vinyl chloride	<0.856	U	4.00	0.856	ug/L			11/16/23 20:52	2
Xylenes, Total	<2.48	U	20.0	2.48	ug/L			11/16/23 20:52	2

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Client Sample ID: MW-43

Lab Sample ID: 860-61632-2

Date Collected: 11/13/23 10:55

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.00248	U	0.0200	0.00248	mg/L			11/16/23 20:52	2
o-Xylene	<0.00100	U	0.00200	0.00100	mg/L			11/16/23 20:52	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144					11/16/23 20:52	2
4-Bromofluorobenzene (Surr)	100		74 - 124					11/16/23 20:52	2
Dibromofluoromethane (Surr)	100		75 - 131					11/16/23 20:52	2
Toluene-d8 (Surr)	98		80 - 120					11/16/23 20:52	2

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 16:50	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/17/23 08:38	11/18/23 16:50	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/17/23 08:38	11/18/23 16:50	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/17/23 08:38	11/18/23 16:50	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/17/23 08:38	11/18/23 16:50	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/17/23 08:38	11/18/23 16:50	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/17/23 08:38	11/18/23 16:50	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/18/23 16:50	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/17/23 08:38	11/18/23 16:50	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 16:50	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/17/23 08:38	11/18/23 16:50	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/17/23 08:38	11/18/23 16:50	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/17/23 08:38	11/18/23 16:50	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 16:50	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/17/23 08:38	11/18/23 16:50	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 16:50	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/17/23 08:38	11/18/23 16:50	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/17/23 08:38	11/18/23 16:50	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 16:50	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 16:50	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/17/23 08:38	11/18/23 16:50	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/17/23 08:38	11/18/23 16:50	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/17/23 08:38	11/18/23 16:50	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/17/23 08:38	11/18/23 16:50	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 16:50	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/17/23 08:38	11/18/23 16:50	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/17/23 08:38	11/18/23 16:50	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/18/23 16:50	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 16:50	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/17/23 08:38	11/18/23 16:50	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/17/23 08:38	11/18/23 16:50	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/17/23 08:38	11/18/23 16:50	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/17/23 08:38	11/18/23 16:50	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/17/23 08:38	11/18/23 16:50	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/17/23 08:38	11/18/23 16:50	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/17/23 08:38	11/18/23 16:50	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/17/23 08:38	11/18/23 16:50	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/17/23 08:38	11/18/23 16:50	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/17/23 08:38	11/18/23 16:50	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Client Sample ID: MW-43

Lab Sample ID: 860-61632-2

Date Collected: 11/13/23 10:55

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/17/23 08:38	11/18/23 16:50	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/18/23 16:50	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/17/23 08:38	11/18/23 16:50	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/17/23 08:38	11/18/23 16:50	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/17/23 08:38	11/18/23 16:50	1
Acenaphthene	1.39	J	2.00	0.208	ug/L		11/17/23 08:38	11/18/23 16:50	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/18/23 16:50	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/17/23 08:38	11/18/23 16:50	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/17/23 08:38	11/18/23 16:50	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/17/23 08:38	11/18/23 16:50	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/17/23 08:38	11/18/23 16:50	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 16:50	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 16:50	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 16:50	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/17/23 08:38	11/18/23 16:50	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 16:50	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/17/23 08:38	11/18/23 16:50	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/17/23 08:38	11/18/23 16:50	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/17/23 08:38	11/18/23 16:50	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/17/23 08:38	11/18/23 16:50	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/17/23 08:38	11/18/23 16:50	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/18/23 16:50	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 16:50	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 16:50	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 16:50	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/17/23 08:38	11/18/23 16:50	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/17/23 08:38	11/18/23 16:50	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/17/23 08:38	11/18/23 16:50	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/18/23 16:50	1
Di-n-butyl phthalate	24.6		2.00	0.800	ug/L		11/17/23 08:38	11/18/23 16:50	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/17/23 08:38	11/18/23 16:50	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/17/23 08:38	11/18/23 16:50	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/17/23 08:38	11/18/23 16:50	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/17/23 08:38	11/18/23 16:50	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 16:50	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/17/23 08:38	11/18/23 16:50	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/17/23 08:38	11/18/23 16:50	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/18/23 16:50	1
Fluorene	0.593	J	2.00	0.205	ug/L		11/17/23 08:38	11/18/23 16:50	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 16:50	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/17/23 08:38	11/18/23 16:50	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/17/23 08:38	11/18/23 16:50	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/17/23 08:38	11/18/23 16:50	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/17/23 08:38	11/18/23 16:50	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/17/23 08:38	11/18/23 16:50	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/17/23 08:38	11/18/23 16:50	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 16:50	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/17/23 08:38	11/18/23 16:50	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/17/23 08:38	11/18/23 16:50	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Client Sample ID: MW-43

Lab Sample ID: 860-61632-2

Date Collected: 11/13/23 10:55

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/17/23 08:38	11/18/23 16:50	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/17/23 08:38	11/18/23 16:50	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/17/23 08:38	11/18/23 16:50	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/17/23 08:38	11/18/23 16:50	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/17/23 08:38	11/18/23 16:50	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/18/23 16:50	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/17/23 08:38	11/18/23 16:50	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/17/23 08:38	11/18/23 16:50	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/17/23 08:38	11/18/23 16:50	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/18/23 16:50	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 16:50	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/18/23 16:50	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/18/23 16:50	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 16:50	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/18/23 16:50	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/17/23 08:38	11/18/23 16:50	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/17/23 08:38	11/18/23 16:50	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/17/23 08:38	11/18/23 16:50	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/17/23 08:38	11/18/23 16:50	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/17/23 08:38	11/18/23 16:50	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/17/23 08:38	11/18/23 16:50	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/17/23 08:38	11/18/23 16:50	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/17/23 08:38	11/18/23 16:50	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/17/23 08:38	11/18/23 16:50	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/18/23 16:50	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/17/23 08:38	11/18/23 16:50	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/17/23 08:38	11/18/23 16:50	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/17/23 08:38	11/18/23 16:50	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/17/23 08:38	11/18/23 16:50	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/17/23 08:38	11/18/23 16:50	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/18/23 16:50	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/18/23 16:50	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/17/23 08:38	11/18/23 16:50	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/17/23 08:38	11/18/23 16:50	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/18/23 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		31 - 132	11/17/23 08:38	11/18/23 16:50	1
2-Fluorobiphenyl	72		40 - 130	11/17/23 08:38	11/18/23 16:50	1
2-Fluorophenol (Surr)	33		21 - 114	11/17/23 08:38	11/18/23 16:50	1
Nitrobenzene-d5 (Surr)	47		37 - 130	11/17/23 08:38	11/18/23 16:50	1
Phenol-d5 (Surr)	25		16 - 117	11/17/23 08:38	11/18/23 16:50	1
p-Terphenyl-d14	102		20 - 141	11/17/23 08:38	11/18/23 16:50	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	6.27		0.671	0.176	ug/L		11/16/23 11:57	11/20/23 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	74		37 - 133	11/16/23 11:57	11/20/23 20:19	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Client Sample ID: TB-07 (111323)

Lab Sample ID: 860-61632-3

Date Collected: 11/13/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 11:11	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 11:11	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 11:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 11:11	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 11:11	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 11:11	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 11:11	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 11:11	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 11:11	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 11:11	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 11:11	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 11:11	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 11:11	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 11:11	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 11:11	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 11:11	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 11:11	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 11:11	1
2-Propanol	<5.23	U **	10.0	5.23	ug/L			11/16/23 11:11	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 11:11	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 11:11	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 11:11	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 11:11	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 11:11	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 11:11	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 11:11	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 11:11	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 11:11	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 11:11	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 11:11	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 11:11	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 11:11	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 11:11	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 11:11	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 11:11	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 11:11	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 11:11	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 11:11	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 11:11	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 11:11	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 11:11	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 11:11	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 11:11	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 11:11	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 11:11	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 11:11	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 11:11	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 11:11	1
Isobutanol	<17.1	U **	50.0	17.1	ug/L			11/16/23 11:11	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Client Sample ID: TB-07 (111323)

Lab Sample ID: 860-61632-3

Date Collected: 11/13/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 11:11	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 11:11	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 11:11	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 11:11	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 11:11	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 11:11	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 11:11	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 11:11	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 11:11	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 11:11	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 11:11	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 11:11	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 11:11	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 11:11	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 11:11	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 11:11	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 11:11	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 11:11	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 11:11	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 11:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/16/23 11:11	1
4-Bromofluorobenzene (Surr)	100		74 - 124		11/16/23 11:11	1
Dibromofluoromethane (Surr)	102		75 - 131		11/16/23 11:11	1
Toluene-d8 (Surr)	102		80 - 120		11/16/23 11:11	1

Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-61115-C-1 MS	Matrix Spike	93	97	99	98
860-61298-A-1 MS	Matrix Spike	100	95	102	99
860-61632-1	MW-47	102	97	102	102
860-61632-1 - RA	MW-47	102	101	96	99
860-61632-1 MS	MW-47	101	103	101	99
860-61632-2	MW-43	99	100	100	98
860-61632-3	TB-07 (111323)	102	100	102	102
LCS 860-131293/3	Lab Control Sample	99	97	101	101
LCS 860-131391/3	Lab Control Sample	95	98	101	97
LCS 860-131519/3	Lab Control Sample	99	102	99	100
LCSD 860-131293/4	Lab Control Sample Dup	100	96	102	99
LCSD 860-131391/4	Lab Control Sample Dup	93	98	102	97
LCSD 860-131519/4	Lab Control Sample Dup	101	100	100	99
MB 860-131293/9	Method Blank	103	95	103	98
MB 860-131391/9	Method Blank	100	98	100	99
MB 860-131519/10	Method Blank	102	101	96	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	2FP (19-120)	FBP (43-130)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-61632-1	MW-47				71		
860-61632-2	MW-43				74		
LCS 860-131401/2-A	Lab Control Sample	69	49	88	95	35	85
LCSD 860-131401/3-A	Lab Control Sample Dup	68	46	93	87	29	87
MB 860-131401/1-A	Method Blank	64	47	79	118	33	80

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
2FP = 2-Fluorophenol (Surr)
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (31-132)	FBP (40-130)	2FP (21-114)	NBZ (37-130)	PHL (16-117)	TPHd14 (20-141)
860-61549-B-2-B MS	Matrix Spike	65	62	41	59	33	84
860-61549-B-2-C MSD	Matrix Spike Duplicate	76	72	40	58	31	96

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Surrogate Summary

Client: Ashland LLC

Job ID: 860-61632-1

Project/Site: Hercules Hattiesburg, MS

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (31-132)	FBP (40-130)	2FP (21-114)	NBZ (37-130)	PHL (16-117)	TPHd14 (20-141)
860-61632-1	MW-47	49	52	31	44	19	77
860-61632-2	MW-43	75	72	33	47	25	102
LCS 860-131552/2-A	Lab Control Sample	96	88	66	90	51	105
LCSD 860-131552/3-A	Lab Control Sample Dup	104	88	65	91	51	106
MB 860-131552/1-A	Method Blank	37	41	27	41	19	74

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-131293/9

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 09:49	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 09:49	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 09:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 09:49	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 09:49	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 09:49	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 09:49	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 09:49	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 09:49	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 09:49	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 09:49	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 09:49	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 09:49	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 09:49	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 09:49	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 09:49	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 09:49	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 09:49	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/16/23 09:49	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 09:49	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 09:49	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 09:49	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 09:49	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 09:49	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 09:49	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 09:49	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 09:49	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 09:49	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 09:49	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 09:49	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 09:49	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 09:49	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 09:49	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 09:49	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 09:49	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 09:49	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 09:49	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 09:49	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 09:49	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 09:49	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 09:49	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 09:49	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 09:49	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 09:49	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 09:49	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 09:49	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 09:49	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 09:49	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131293/9

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/16/23 09:49	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 09:49	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 09:49	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 09:49	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 09:49	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 09:49	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 09:49	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 09:49	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 09:49	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 09:49	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 09:49	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 09:49	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 09:49	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 09:49	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 09:49	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 09:49	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 09:49	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 09:49	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 09:49	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 09:49	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 09:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		11/16/23 09:49	1
4-Bromofluorobenzene (Surr)	95		74 - 124		11/16/23 09:49	1
Dibromofluoromethane (Surr)	103		75 - 131		11/16/23 09:49	1
Toluene-d8 (Surr)	98		80 - 120		11/16/23 09:49	1

Lab Sample ID: LCS 860-131293/3

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	48.65		ug/L		97	72 - 125
1,1,1-Trichloroethane	50.0	47.19		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.54		ug/L		103	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.08		ug/L		94	60 - 140
1,1,2-Trichloroethane	50.0	49.74		ug/L		99	70 - 130
1,1-Dichloroethane	50.0	47.86		ug/L		96	70 - 130
1,1-Dichloroethene	50.0	45.77		ug/L		92	50 - 150
1,2,3-Trichloropropane	50.0	50.38		ug/L		101	75 - 125
1,2,4-Trimethylbenzene	50.0	48.28		ug/L		97	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	52.71		ug/L		105	59 - 125
1,2-Dibromoethane	50.0	51.07		ug/L		102	73 - 125
1,2-Dichloroethane	50.0	50.86		ug/L		102	72 - 130
1,2-Dichloropropane	50.0	48.78		ug/L		98	74 - 125
1,3,5-Trimethylbenzene	50.0	48.09		ug/L		96	60 - 140
1,3-Butadiene	50.0	43.04		ug/L		86	60 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131293/3

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	47.45		ug/L		95	70 - 130
2-Butanone (MEK)	250	281.2		ug/L		112	60 - 140
2-Hexanone (MBK)	250	277.1		ug/L		111	60 - 140
2-Propanol	500	804.8	*+	ug/L		161	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	46.57		ug/L		93	70 - 130
4-Methyl-2-pentanone	250	272.1		ug/L		109	60 - 140
Acetone	250	258.1		ug/L		103	60 - 140
Acetonitrile	500	567.3		ug/L		113	60 - 140
Acrolein	250	254.0		ug/L		102	60 - 140
Acrylonitrile	500	523.3		ug/L		105	60 - 140
alpha-Chlorotoluene	50.0	47.84		ug/L		96	75 - 125
Benzene	50.0	48.36		ug/L		97	75 - 125
Bromodichloromethane	50.0	48.92		ug/L		98	75 - 125
Bromoform	50.0	48.74		ug/L		97	70 - 130
Bromomethane	50.0	51.30		ug/L		103	60 - 140
Carbon disulfide	50.0	40.39		ug/L		81	60 - 140
Carbon tetrachloride	50.0	46.97		ug/L		94	70 - 130
Chlorobenzene	50.0	49.07		ug/L		98	65 - 135
Chlorodibromomethane	50.0	48.48		ug/L		97	73 - 125
Chloroethane	50.0	48.35		ug/L		97	60 - 140
Chloroform	50.0	48.87		ug/L		98	70 - 121
Chloromethane	50.0	41.85		ug/L		84	60 - 140
Chloroprene	50.0	47.33		ug/L		95	70 - 130
cis-1,2-Dichloroethene	50.0	47.10		ug/L		94	75 - 125
cis-1,3-Dichloropropene	50.0	48.14		ug/L		96	74 - 125
Cumene (isopropylbenzene)	50.0	49.23		ug/L		98	75 - 125
Cyclohexane	50.0	45.90		ug/L		92	70 - 130
Dibromomethane	50.0	50.72		ug/L		101	69 - 127
Dichlorodifluoromethane	50.0	37.27		ug/L		75	50 - 150
Ethyl methacrylate	50.0	50.25		ug/L		101	70 - 130
Ethylbenzene	50.0	49.31		ug/L		99	75 - 125
Hexane	50.0	43.20		ug/L		86	72 - 125
Iodomethane	50.0	53.66		ug/L		107	75 - 125
Isobutanol	1240	1834	*+	ug/L		148	60 - 140
Methacrylonitrile	500	528.2		ug/L		106	70 - 130
Methyl methacrylate	100	102.8		ug/L		103	70 - 130
Methyl tert-butyl ether	50.0	48.93		ug/L		98	65 - 135
Methylene Chloride	50.0	47.98		ug/L		96	71 - 125
Propionitrile	500	579.5		ug/L		116	70 - 130
Propylbenzene	50.0	48.63		ug/L		97	75 - 125
Styrene	50.0	49.45		ug/L		99	75 - 125
Tetrachloroethene	50.0	48.57		ug/L		97	71 - 125
Tetrahydrofuran	100	108.8		ug/L		109	75 - 125
Toluene	50.0	48.23		ug/L		96	70 - 130
trans-1,2-Dichloroethene	50.0	47.42		ug/L		95	75 - 125
trans-1,3-Dichloropropene	50.0	47.99		ug/L		96	66 - 125
trans-1,4-Dichloro-2-butene	50.0	50.95		ug/L		102	70 - 130
Trichloroethene	50.0	49.12		ug/L		98	75 - 135
Trichlorofluoromethane	50.0	50.30		ug/L		101	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131293/3

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	249.2		ug/L		100	60 - 140
Vinyl chloride	50.0	43.06		ug/L		86	60 - 140
Xylenes, Total	100	98.26		ug/L		98	75 - 125
m,p-Xylenes	0.0500	0.04913		mg/L		98	75 - 125
o-Xylene	0.0500	0.04913		mg/L		98	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LCSD 860-131293/4

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	45.53		ug/L		91	72 - 125	7	25
1,1,1-Trichloroethane	50.0	44.51		ug/L		89	70 - 130	6	25
1,1,2,2-Tetrachloroethane	50.0	48.34		ug/L		97	74 - 125	6	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.54		ug/L		89	60 - 140	6	25
1,1,2-Trichloroethane	50.0	46.98		ug/L		94	70 - 130	6	25
1,1-Dichloroethane	50.0	45.57		ug/L		91	70 - 130	5	25
1,1-Dichloroethene	50.0	43.40		ug/L		87	50 - 150	5	25
1,2,3-Trichloropropane	50.0	46.81		ug/L		94	75 - 125	7	25
1,2,4-Trimethylbenzene	50.0	45.33		ug/L		91	75 - 125	6	25
1,2-Dibromo-3-Chloropropane	50.0	48.60		ug/L		97	59 - 125	8	25
1,2-Dibromoethane	50.0	48.14		ug/L		96	73 - 125	6	25
1,2-Dichloroethane	50.0	48.61		ug/L		97	72 - 130	5	25
1,2-Dichloropropane	50.0	46.32		ug/L		93	74 - 125	5	25
1,3,5-Trimethylbenzene	50.0	45.23		ug/L		90	60 - 140	6	25
1,3-Butadiene	50.0	41.77		ug/L		84	60 - 150	3	25
2,2,4-Trimethylpentane	50.0	45.79		ug/L		92	70 - 130	4	25
2-Butanone (MEK)	250	269.8		ug/L		108	60 - 140	4	25
2-Hexanone (MBK)	250	256.5		ug/L		103	60 - 140	8	25
2-Propanol	500	781.4	*+	ug/L		156	70 - 120	3	25
3-Chloropropene (Allyl Chloride)	50.0	42.73		ug/L		85	70 - 130	9	25
4-Methyl-2-pentanone	250	257.4		ug/L		103	60 - 140	6	25
Acetone	250	250.1		ug/L		100	60 - 140	3	25
Acetonitrile	500	549.4		ug/L		110	60 - 140	3	25
Acrolein	250	246.6		ug/L		99	60 - 140	3	25
Acrylonitrile	500	505.3		ug/L		101	60 - 140	4	25
alpha-Chlorotoluene	50.0	43.07		ug/L		86	75 - 125	11	25
Benzene	50.0	45.63		ug/L		91	75 - 125	6	25
Bromodichloromethane	50.0	46.81		ug/L		94	75 - 125	4	25
Bromoform	50.0	46.51		ug/L		93	70 - 130	5	25
Bromomethane	50.0	46.44		ug/L		93	60 - 140	10	25
Carbon disulfide	50.0	38.27		ug/L		77	60 - 140	5	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131293/4

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	44.35		ug/L		89	70 - 130	6	25
Chlorobenzene	50.0	45.75		ug/L		91	65 - 135	7	25
Chlorodibromomethane	50.0	46.02		ug/L		92	73 - 125	5	25
Chloroethane	50.0	44.98		ug/L		90	60 - 140	7	25
Chloroform	50.0	46.45		ug/L		93	70 - 121	5	25
Chloromethane	50.0	40.50		ug/L		81	60 - 140	3	25
Chloroprene	50.0	45.83		ug/L		92	70 - 130	3	25
cis-1,2-Dichloroethene	50.0	44.67		ug/L		89	75 - 125	5	25
cis-1,3-Dichloropropene	50.0	46.55		ug/L		93	74 - 125	3	25
Cumene (isopropylbenzene)	50.0	46.28		ug/L		93	75 - 125	6	25
Cyclohexane	50.0	43.92		ug/L		88	70 - 130	4	25
Dibromomethane	50.0	48.69		ug/L		97	69 - 127	4	25
Dichlorodifluoromethane	50.0	34.62		ug/L		69	50 - 150	7	25
Ethyl methacrylate	50.0	47.52		ug/L		95	70 - 130	6	25
Ethylbenzene	50.0	45.80		ug/L		92	75 - 125	7	25
Hexane	50.0	42.21		ug/L		84	72 - 125	2	25
Iodomethane	50.0	51.46		ug/L		103	75 - 125	4	25
Isobutanol	1240	1790	*+	ug/L		144	60 - 140	2	25
Methacrylonitrile	500	502.8		ug/L		101	70 - 130	5	25
Methyl methacrylate	100	99.21		ug/L		99	70 - 130	4	25
Methyl tert-butyl ether	50.0	47.28		ug/L		95	65 - 135	3	25
Methylene Chloride	50.0	45.67		ug/L		91	71 - 125	5	25
Propionitrile	500	570.5		ug/L		114	70 - 130	2	25
Propylbenzene	50.0	45.42		ug/L		91	75 - 125	7	25
Styrene	50.0	46.72		ug/L		93	75 - 125	6	25
Tetrachloroethene	50.0	45.36		ug/L		91	71 - 125	7	25
Tetrahydrofuran	100	101.3		ug/L		101	75 - 125	7	25
Toluene	50.0	45.02		ug/L		90	70 - 130	7	25
trans-1,2-Dichloroethene	50.0	45.14		ug/L		90	75 - 125	5	25
trans-1,3-Dichloropropene	50.0	45.36		ug/L		91	66 - 125	6	25
trans-1,4-Dichloro-2-butene	50.0	45.96		ug/L		92	70 - 130	10	25
Trichloroethene	50.0	46.26		ug/L		93	75 - 135	6	25
Trichlorofluoromethane	50.0	48.16		ug/L		96	60 - 140	4	25
Vinyl acetate	250	237.3		ug/L		95	60 - 140	5	25
Vinyl chloride	50.0	41.27		ug/L		83	60 - 140	4	25
Xylenes, Total	100	91.58		ug/L		92	75 - 125	7	25
m,p-Xylenes	0.0500	0.04559		mg/L		91	75 - 125	7	25
o-Xylene	0.0500	0.04599		mg/L		92	75 - 125	7	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	99		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61298-A-1 MS

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	46.07		ug/L		92	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	46.64		ug/L		93	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	48.59		ug/L		97	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	47.62		ug/L		95	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	46.98		ug/L		94	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	47.78		ug/L		96	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	47.04		ug/L		94	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	44.66		ug/L		89	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	46.37		ug/L		93	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	46.63		ug/L		93	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	47.86		ug/L		96	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	48.09		ug/L		96	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	47.08		ug/L		94	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	45.42		ug/L		91	70 - 125
1,3-Butadiene	<0.568	U	50.0	48.53		ug/L		97	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	46.71		ug/L		93	70 - 130
2-Butanone (MEK)	<8.28	U	250	246.9		ug/L		99	60 - 140
2-Hexanone (MBK)	<7.45	U	250	246.5		ug/L		99	60 - 140
2-Propanol	<5.23	U *+ F1	500	754.4	F1	ug/L		151	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	51.42		ug/L		103	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	246.1		ug/L		98	60 - 140
Acetone	<3.07	U	250	226.7		ug/L		91	60 - 140
Acetonitrile	<14.6	U	500	522.0		ug/L		104	60 - 140
Acrolein	<11.1	U	250	234.2		ug/L		94	50 - 150
Acrylonitrile	<14.3	U	500	481.4		ug/L		96	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	39.58		ug/L		79	70 - 130
Benzene	<0.460	U	50.0	47.32		ug/L		95	66 - 142
Bromodichloromethane	<0.552	U	50.0	46.78		ug/L		94	75 - 125
Bromoform	<0.633	U	50.0	45.33		ug/L		91	75 - 125
Bromomethane	<1.42	U	50.0	49.40		ug/L		99	60 - 140
Carbon disulfide	<1.65	U	50.0	44.79		ug/L		90	60 - 140
Carbon tetrachloride	<0.896	U	50.0	46.52		ug/L		93	62 - 125
Chlorobenzene	<0.455	U	50.0	47.43		ug/L		95	60 - 133
Chlorodibromomethane	<0.547	U	50.0	46.15		ug/L		92	73 - 125
Chloroethane	<1.98	U	50.0	48.72		ug/L		97	60 - 140
Chloroform	<0.464	U	50.0	47.30		ug/L		95	70 - 130
Chloromethane	<2.04	U	50.0	47.57		ug/L		95	60 - 140
Chloroprene	<0.598	U	50.0	47.81		ug/L		96	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	46.05		ug/L		92	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	46.45		ug/L		93	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	47.44		ug/L		95	75 - 125
Cyclohexane	<1.29	U	50.0	46.15		ug/L		92	70 - 130
Dibromomethane	<0.357	U	50.0	48.01		ug/L		96	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	47.14		ug/L		94	70 - 130
Ethyl methacrylate	<1.12	U	50.0	47.07		ug/L		94	70 - 130
Ethylbenzene	<0.385	U	50.0	47.20		ug/L		94	75 - 125
Hexane	<0.517	U	50.0	45.05		ug/L		90	72 - 125
Iodomethane	<6.52	U	50.0	60.67		ug/L		121	75 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61298-A-1 MS

Matrix: Water

Analysis Batch: 131293

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Isobutanol	<17.1	U *+	1240	1623		ug/L		131	60 - 140
Methacrylonitrile	<2.72	U	500	483.5		ug/L		97	70 - 130
Methyl methacrylate	<2.25	U	100	95.38		ug/L		95	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	46.23		ug/L		92	65 - 135
Methylene Chloride	<1.73	U	50.0	46.72		ug/L		93	75 - 125
Propionitrile	<3.34	U	500	534.2		ug/L		107	70 - 130
Propylbenzene	<0.429	U	50.0	46.35		ug/L		93	75 - 125
Styrene	<0.619	U	50.0	47.13		ug/L		94	75 - 125
Tetrachloroethene	<0.655	U	50.0	47.96		ug/L		96	71 - 125
Tetrahydrofuran	<1.83	U	100	97.66		ug/L		98	75 - 125
Toluene	<0.475	U	50.0	45.97		ug/L		92	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	46.90		ug/L		94	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	46.16		ug/L		92	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	42.85		ug/L		86	70 - 130
Trichloroethene	<1.50	U	50.0	46.60		ug/L		93	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	51.42		ug/L		103	60 - 140
Vinyl acetate	<2.14	U	250	241.3		ug/L		97	60 - 140
Vinyl chloride	<0.428	U	50.0	48.23		ug/L		96	60 - 140
Xylenes, Total	<1.24	U	100	94.53		ug/L		95	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.04743		mg/L		95	75 - 125
o-Xylene	<0.000502	U	0.0500	0.04710		mg/L		94	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	95		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: MB 860-131391/9

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 17:27	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 17:27	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 17:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 17:27	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 17:27	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 17:27	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 17:27	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 17:27	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 17:27	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 17:27	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 17:27	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 17:27	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 17:27	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 17:27	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 17:27	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131391/9

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 17:27	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 17:27	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 17:27	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/16/23 17:27	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 17:27	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 17:27	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 17:27	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 17:27	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 17:27	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 17:27	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 17:27	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 17:27	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 17:27	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 17:27	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 17:27	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 17:27	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 17:27	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 17:27	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 17:27	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 17:27	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 17:27	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 17:27	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 17:27	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 17:27	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 17:27	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 17:27	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 17:27	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 17:27	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 17:27	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 17:27	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 17:27	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 17:27	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 17:27	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/16/23 17:27	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 17:27	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 17:27	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 17:27	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 17:27	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 17:27	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 17:27	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 17:27	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 17:27	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 17:27	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 17:27	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 17:27	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 17:27	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 17:27	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 17:27	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 17:27	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131391/9

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 17:27	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 17:27	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 17:27	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 17:27	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 17:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		11/16/23 17:27	1
4-Bromofluorobenzene (Surr)	98		74 - 124		11/16/23 17:27	1
Dibromofluoromethane (Surr)	100		75 - 131		11/16/23 17:27	1
Toluene-d8 (Surr)	99		80 - 120		11/16/23 17:27	1

Lab Sample ID: LCS 860-131391/3

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	49.00		ug/L		98	72 - 125
1,1,1-Trichloroethane	50.0	46.38		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.88		ug/L		100	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.91		ug/L		100	60 - 140
1,1,2-Trichloroethane	50.0	49.94		ug/L		100	70 - 130
1,1-Dichloroethane	50.0	45.44		ug/L		91	70 - 130
1,1-Dichloroethene	50.0	45.19		ug/L		90	50 - 150
1,2,3-Trichloropropane	50.0	47.54		ug/L		95	75 - 125
1,2,4-Trimethylbenzene	50.0	48.24		ug/L		96	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	54.96		ug/L		110	59 - 125
1,2-Dibromoethane	50.0	50.35		ug/L		101	73 - 125
1,2-Dichloroethane	50.0	48.92		ug/L		98	72 - 130
1,2-Dichloropropane	50.0	48.76		ug/L		98	74 - 125
1,3,5-Trimethylbenzene	50.0	48.60		ug/L		97	60 - 140
1,3-Butadiene	50.0	44.12		ug/L		88	60 - 150
2,2,4-Trimethylpentane	50.0	45.76		ug/L		92	70 - 130
2-Butanone (MEK)	250	245.9		ug/L		98	60 - 140
2-Hexanone (MBK)	250	233.0		ug/L		93	60 - 140
2-Propanol	500	443.3		ug/L		89	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	42.52		ug/L		85	70 - 130
4-Methyl-2-pentanone	250	239.0		ug/L		96	60 - 140
Acetone	250	235.6		ug/L		94	60 - 140
Acetonitrile	500	426.8		ug/L		85	60 - 140
Acrolein	250	216.0		ug/L		86	60 - 140
Acrylonitrile	500	485.3		ug/L		97	60 - 140
alpha-Chlorotoluene	50.0	44.94		ug/L		90	75 - 125
Benzene	50.0	47.76		ug/L		96	75 - 125
Bromodichloromethane	50.0	49.10		ug/L		98	75 - 125
Bromoform	50.0	50.25		ug/L		100	70 - 130
Bromomethane	50.0	50.18		ug/L		100	60 - 140
Carbon disulfide	50.0	42.18		ug/L		84	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131391/3

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	50.0	45.59		ug/L		91	70 - 130
Chlorobenzene	50.0	48.60		ug/L		97	65 - 135
Chlorodibromomethane	50.0	49.28		ug/L		99	73 - 125
Chloroethane	50.0	41.91		ug/L		84	60 - 140
Chloroform	50.0	48.58		ug/L		97	70 - 121
Chloromethane	50.0	43.40		ug/L		87	60 - 140
Chloroprene	50.0	44.81		ug/L		90	70 - 130
cis-1,2-Dichloroethene	50.0	46.94		ug/L		94	75 - 125
cis-1,3-Dichloropropene	50.0	48.63		ug/L		97	74 - 125
Cumene (isopropylbenzene)	50.0	47.49		ug/L		95	75 - 125
Cyclohexane	50.0	44.27		ug/L		89	70 - 130
Dibromomethane	50.0	51.58		ug/L		103	69 - 127
Dichlorodifluoromethane	50.0	42.81		ug/L		86	50 - 150
Ethyl methacrylate	50.0	47.69		ug/L		95	70 - 130
Ethylbenzene	50.0	47.27		ug/L		95	75 - 125
Hexane	50.0	43.39		ug/L		87	72 - 125
Iodomethane	50.0	55.84		ug/L		112	75 - 125
Isobutanol	1240	1186		ug/L		96	60 - 140
Methacrylonitrile	500	495.0		ug/L		99	70 - 130
Methyl methacrylate	100	98.24		ug/L		98	70 - 130
Methyl tert-butyl ether	50.0	47.67		ug/L		95	65 - 135
Methylene Chloride	50.0	47.77		ug/L		96	71 - 125
Propionitrile	500	492.8		ug/L		99	70 - 130
Propylbenzene	50.0	48.54		ug/L		97	75 - 125
Styrene	50.0	48.11		ug/L		96	75 - 125
Tetrachloroethene	50.0	48.59		ug/L		97	71 - 125
Tetrahydrofuran	100	98.10		ug/L		98	75 - 125
Toluene	50.0	47.08		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	48.81		ug/L		98	75 - 125
trans-1,3-Dichloropropene	50.0	46.67		ug/L		93	66 - 125
trans-1,4-Dichloro-2-butene	50.0	47.64		ug/L		95	70 - 130
Trichloroethene	50.0	51.18		ug/L		102	75 - 135
Trichlorofluoromethane	50.0	50.08		ug/L		100	60 - 140
Vinyl acetate	250	205.5		ug/L		82	60 - 140
Vinyl chloride	50.0	46.14		ug/L		92	60 - 140
Xylenes, Total	100	93.32		ug/L		93	75 - 125
m,p-Xylenes	0.0500	0.04670		mg/L		93	75 - 125
o-Xylene	0.0500	0.04662		mg/L		93	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	97		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131391/4

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	46.78		ug/L		94	72 - 125	5	25
1,1,1-Trichloroethane	50.0	44.75		ug/L		89	70 - 130	4	25
1,1,2,2-Tetrachloroethane	50.0	48.68		ug/L		97	74 - 125	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.26		ug/L		103	60 - 140	3	25
1,1,2-Trichloroethane	50.0	48.40		ug/L		97	70 - 130	3	25
1,1-Dichloroethane	50.0	45.62		ug/L		91	70 - 130	0	25
1,1-Dichloroethene	50.0	43.45		ug/L		87	50 - 150	4	25
1,2,3-Trichloropropane	50.0	48.45		ug/L		97	75 - 125	2	25
1,2,4-Trimethylbenzene	50.0	45.56		ug/L		91	75 - 125	6	25
1,2-Dibromo-3-Chloropropane	50.0	52.02		ug/L		104	59 - 125	5	25
1,2-Dibromoethane	50.0	49.20		ug/L		98	73 - 125	2	25
1,2-Dichloroethane	50.0	46.77		ug/L		94	72 - 130	4	25
1,2-Dichloropropane	50.0	46.58		ug/L		93	74 - 125	5	25
1,3,5-Trimethylbenzene	50.0	45.60		ug/L		91	60 - 140	6	25
1,3-Butadiene	50.0	45.30		ug/L		91	60 - 150	3	25
2,2,4-Trimethylpentane	50.0	44.77		ug/L		90	70 - 130	2	25
2-Butanone (MEK)	250	245.7		ug/L		98	60 - 140	0	25
2-Hexanone (MBK)	250	232.1		ug/L		93	60 - 140	0	25
2-Propanol	500	442.1		ug/L		88	70 - 120	0	25
3-Chloropropene (Allyl Chloride)	50.0	43.98		ug/L		88	70 - 130	3	25
4-Methyl-2-pentanone	250	235.6		ug/L		94	60 - 140	1	25
Acetone	250	236.5		ug/L		95	60 - 140	0	25
Acetonitrile	500	441.5		ug/L		88	60 - 140	3	25
Acrolein	250	219.9		ug/L		88	60 - 140	2	25
Acrylonitrile	500	478.3		ug/L		96	60 - 140	1	25
alpha-Chlorotoluene	50.0	46.36		ug/L		93	75 - 125	3	25
Benzene	50.0	45.21		ug/L		90	75 - 125	5	25
Bromodichloromethane	50.0	46.43		ug/L		93	75 - 125	6	25
Bromoform	50.0	48.61		ug/L		97	70 - 130	3	25
Bromomethane	50.0	49.87		ug/L		100	60 - 140	1	25
Carbon disulfide	50.0	40.73		ug/L		81	60 - 140	4	25
Carbon tetrachloride	50.0	44.64		ug/L		89	70 - 130	2	25
Chlorobenzene	50.0	46.29		ug/L		93	65 - 135	5	25
Chlorodibromomethane	50.0	47.63		ug/L		95	73 - 125	3	25
Chloroethane	50.0	41.20		ug/L		82	60 - 140	2	25
Chloroform	50.0	46.99		ug/L		94	70 - 121	3	25
Chloromethane	50.0	42.09		ug/L		84	60 - 140	3	25
Chloroprene	50.0	43.22		ug/L		86	70 - 130	4	25
cis-1,2-Dichloroethene	50.0	45.16		ug/L		90	75 - 125	4	25
cis-1,3-Dichloropropene	50.0	46.76		ug/L		94	74 - 125	4	25
Cumene (isopropylbenzene)	50.0	45.25		ug/L		90	75 - 125	5	25
Cyclohexane	50.0	43.75		ug/L		87	70 - 130	1	25
Dibromomethane	50.0	50.47		ug/L		101	69 - 127	2	25
Dichlorodifluoromethane	50.0	43.24		ug/L		86	50 - 150	1	25
Ethyl methacrylate	50.0	46.62		ug/L		93	70 - 130	2	25
Ethylbenzene	50.0	45.12		ug/L		90	75 - 125	5	25
Hexane	50.0	44.79		ug/L		90	72 - 125	3	25
Iodomethane	50.0	53.05		ug/L		106	75 - 125	5	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131391/4

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isobutanol	1240	1170		ug/L		94	60 - 140	1	25
Methacrylonitrile	500	491.9		ug/L		98	70 - 130	1	25
Methyl methacrylate	100	95.76		ug/L		96	70 - 130	3	25
Methyl tert-butyl ether	50.0	45.42		ug/L		91	65 - 135	5	25
Methylene Chloride	50.0	45.98		ug/L		92	71 - 125	4	25
Propionitrile	500	490.0		ug/L		98	70 - 130	1	25
Propylbenzene	50.0	45.81		ug/L		92	75 - 125	6	25
Styrene	50.0	46.18		ug/L		92	75 - 125	4	25
Tetrachloroethene	50.0	47.11		ug/L		94	71 - 125	3	25
Tetrahydrofuran	100	95.55		ug/L		96	75 - 125	3	25
Toluene	50.0	45.42		ug/L		91	70 - 130	4	25
trans-1,2-Dichloroethene	50.0	45.79		ug/L		92	75 - 125	6	25
trans-1,3-Dichloropropene	50.0	45.61		ug/L		91	66 - 125	2	25
trans-1,4-Dichloro-2-butene	50.0	46.62		ug/L		93	70 - 130	2	25
Trichloroethene	50.0	48.33		ug/L		97	75 - 135	6	25
Trichlorofluoromethane	50.0	51.69		ug/L		103	60 - 140	3	25
Vinyl acetate	250	225.8		ug/L		90	60 - 140	9	25
Vinyl chloride	50.0	45.62		ug/L		91	60 - 140	1	25
Xylenes, Total	100	89.53		ug/L		90	75 - 125	4	25
m,p-Xylenes	0.0500	0.04499		mg/L		90	75 - 125	4	25
o-Xylene	0.0500	0.04454		mg/L		89	75 - 125	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: 860-61115-C-1 MS

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	43.11		ug/L		86	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	41.68		ug/L		83	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	44.76		ug/L		90	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	48.69		ug/L		97	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	44.09		ug/L		88	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	42.60		ug/L		85	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	43.40		ug/L		87	59 - 172
1,2,3-Trichloropropane	1.60		50.0	42.90		ug/L		83	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	42.27		ug/L		85	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	47.85		ug/L		96	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	45.35		ug/L		91	73 - 125
1,2-Dichloroethane	1.07		50.0	44.19		ug/L		86	68 - 127
1,2-Dichloropropane	4.29	J	50.0	47.45		ug/L		86	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	42.30		ug/L		85	70 - 125
1,3-Butadiene	<0.568	U	50.0	46.05		ug/L		92	70 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61115-C-1 MS

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	<0.500	U	50.0	40.85		ug/L		82	70 - 130
2-Butanone (MEK)	<8.28	U	250	232.3		ug/L		93	60 - 140
2-Hexanone (MBK)	<7.45	U	250	228.5		ug/L		91	60 - 140
2-Propanol	<5.23	U	500	390.2		ug/L		78	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	40.34		ug/L		81	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	230.8		ug/L		92	60 - 140
Acetone	<3.07	U	250	213.8		ug/L		86	60 - 140
Acetonitrile	<14.6	U	500	404.9		ug/L		81	60 - 140
Acrolein	<11.1	U	250	145.9		ug/L		58	50 - 150
Acrylonitrile	<14.3	U	500	417.0		ug/L		83	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	41.97		ug/L		84	70 - 130
Benzene	0.466	J	50.0	42.63		ug/L		84	66 - 142
Bromodichloromethane	<0.552	U	50.0	42.79		ug/L		86	75 - 125
Bromoform	<0.633	U	50.0	43.94		ug/L		88	75 - 125
Bromomethane	<1.42	U	50.0	48.56		ug/L		97	60 - 140
Carbon disulfide	<1.65	U	50.0	41.67		ug/L		83	60 - 140
Carbon tetrachloride	<0.896	U	50.0	38.41		ug/L		77	62 - 125
Chlorobenzene	1.19		50.0	44.75		ug/L		87	60 - 133
Chlorodibromomethane	<0.547	U	50.0	44.12		ug/L		88	73 - 125
Chloroethane	<1.98	U	50.0	40.11		ug/L		80	60 - 140
Chloroform	2.65		50.0	45.33		ug/L		85	70 - 130
Chloromethane	<2.04	U	50.0	43.72		ug/L		87	60 - 140
Chloroprene	<0.598	U	50.0	39.50		ug/L		79	70 - 130
cis-1,2-Dichloroethene	1.89		50.0	43.58		ug/L		83	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	42.98		ug/L		86	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	42.01		ug/L		84	75 - 125
Cyclohexane	<1.29	U	50.0	42.62		ug/L		85	70 - 130
Dibromomethane	<0.357	U	50.0	45.93		ug/L		92	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	54.24		ug/L		108	70 - 130
Ethyl methacrylate	<1.12	U	50.0	42.59		ug/L		85	70 - 130
Ethylbenzene	<0.385	U	50.0	42.21		ug/L		84	75 - 125
Hexane	<0.517	U	50.0	44.43		ug/L		89	72 - 125
Iodomethane	<6.52	U	50.0	51.40		ug/L		103	75 - 125
Isobutanol	<17.1	U	1240	1025		ug/L		83	60 - 140
Methacrylonitrile	<2.72	U	500	427.0		ug/L		85	70 - 130
Methyl methacrylate	<2.25	U	100	86.21		ug/L		86	70 - 130
Methyl tert-butyl ether	2.62	J	50.0	43.48		ug/L		82	65 - 135
Methylene Chloride	<1.73	U	50.0	42.11		ug/L		84	75 - 125
Propionitrile	<3.34	U	500	415.7		ug/L		83	70 - 130
Propylbenzene	<0.429	U	50.0	43.53		ug/L		87	75 - 125
Styrene	<0.619	U	50.0	41.65		ug/L		83	75 - 125
Tetrachloroethene	<0.655	U	50.0	43.78		ug/L		88	71 - 125
Tetrahydrofuran	<1.83	U	100	86.30		ug/L		86	75 - 125
Toluene	0.864	J	50.0	43.18		ug/L		85	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	43.21		ug/L		86	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	42.13		ug/L		84	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	41.57		ug/L		83	70 - 130
Trichloroethene	<1.50	U	50.0	45.74		ug/L		91	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	50.79		ug/L		102	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61115-C-1 MS

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	<2.14	U	250	226.5		ug/L		91	60 - 140
Vinyl chloride	13.9		50.0	62.02		ug/L		96	60 - 140
Xylenes, Total	<1.24	U	100	84.41		ug/L		84	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.04243		mg/L		85	75 - 125
o-Xylene	<0.000502	U	0.0500	0.04198		mg/L		84	75 - 125
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
1,2-Dichloroethane-d4 (Surr)	93		63 - 144						
4-Bromofluorobenzene (Surr)	97		74 - 124						
Dibromofluoromethane (Surr)	99		75 - 131						
Toluene-d8 (Surr)	98		80 - 120						

Lab Sample ID: MB 860-131519/10

Matrix: Water

Analysis Batch: 131519

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/17/23 10:36	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/17/23 10:36	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/17/23 10:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/17/23 10:36	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/17/23 10:36	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/17/23 10:36	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/17/23 10:36	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/17/23 10:36	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/17/23 10:36	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/17/23 10:36	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/17/23 10:36	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/17/23 10:36	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/17/23 10:36	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/17/23 10:36	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/17/23 10:36	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/17/23 10:36	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/17/23 10:36	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/17/23 10:36	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/17/23 10:36	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/17/23 10:36	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/17/23 10:36	1
Acetone	<3.07	U	100	3.07	ug/L			11/17/23 10:36	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/17/23 10:36	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/17/23 10:36	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/17/23 10:36	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/17/23 10:36	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/17/23 10:36	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/17/23 10:36	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/17/23 10:36	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/17/23 10:36	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/17/23 10:36	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131519/10

Matrix: Water

Analysis Batch: 131519

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/17/23 10:36	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/17/23 10:36	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/17/23 10:36	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/17/23 10:36	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/17/23 10:36	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/17/23 10:36	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/17/23 10:36	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/17/23 10:36	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/17/23 10:36	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/17/23 10:36	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/17/23 10:36	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/17/23 10:36	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/17/23 10:36	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/17/23 10:36	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/17/23 10:36	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/17/23 10:36	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/17/23 10:36	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/17/23 10:36	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/17/23 10:36	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/17/23 10:36	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/17/23 10:36	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/17/23 10:36	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/17/23 10:36	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/17/23 10:36	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/17/23 10:36	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/17/23 10:36	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/17/23 10:36	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/17/23 10:36	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/17/23 10:36	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/17/23 10:36	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/17/23 10:36	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/17/23 10:36	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/17/23 10:36	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/17/23 10:36	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/17/23 10:36	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/17/23 10:36	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/17/23 10:36	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/17/23 10:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/17/23 10:36	1
4-Bromofluorobenzene (Surr)	101		74 - 124		11/17/23 10:36	1
Dibromofluoromethane (Surr)	96		75 - 131		11/17/23 10:36	1
Toluene-d8 (Surr)	98		80 - 120		11/17/23 10:36	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131519/3

Matrix: Water

Analysis Batch: 131519

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	47.82		ug/L		96	72 - 125
1,1,1-Trichloroethane	50.0	52.04		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.64		ug/L		105	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.32		ug/L		111	60 - 140
1,1,2-Trichloroethane	50.0	51.30		ug/L		103	70 - 130
1,1-Dichloroethane	50.0	49.20		ug/L		98	70 - 130
1,1-Dichloroethene	50.0	55.64		ug/L		111	50 - 150
1,2,3-Trichloropropane	50.0	53.27		ug/L		107	75 - 125
1,2,4-Trimethylbenzene	50.0	56.08		ug/L		112	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	47.37		ug/L		95	59 - 125
1,2-Dibromoethane	50.0	52.03		ug/L		104	73 - 125
1,2-Dichloroethane	50.0	50.47		ug/L		101	72 - 130
1,2-Dichloropropane	50.0	51.26		ug/L		103	74 - 125
1,3,5-Trimethylbenzene	50.0	55.35		ug/L		111	60 - 140
1,3-Butadiene	50.0	54.76		ug/L		110	60 - 150
2-Butanone (MEK)	250	275.9		ug/L		110	60 - 140
2-Hexanone (MBK)	250	288.0		ug/L		115	60 - 140
2-Propanol	500	577.8		ug/L		116	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	48.16		ug/L		96	70 - 130
4-Methyl-2-pentanone	250	282.1		ug/L		113	60 - 140
Acetone	250	255.0		ug/L		102	60 - 140
Acetonitrile	500	490.9		ug/L		98	60 - 140
Acrolein	250	238.9		ug/L		96	60 - 140
Acrylonitrile	500	520.7		ug/L		104	60 - 140
alpha-Chlorotoluene	50.0	46.86		ug/L		94	75 - 125
Benzene	50.0	50.34		ug/L		101	75 - 125
Bromodichloromethane	50.0	47.68		ug/L		95	75 - 125
Bromoform	50.0	44.63		ug/L		89	70 - 130
Bromomethane	50.0	50.09		ug/L		100	60 - 140
Carbon disulfide	50.0	50.13		ug/L		100	60 - 140
Carbon tetrachloride	50.0	50.84		ug/L		102	70 - 130
Chlorobenzene	50.0	50.75		ug/L		102	65 - 135
Chlorodibromomethane	50.0	46.20		ug/L		92	73 - 125
Chloroethane	50.0	49.61		ug/L		99	60 - 140
Chloroform	50.0	50.73		ug/L		101	70 - 121
Chloromethane	50.0	44.76		ug/L		90	60 - 140
Chloroprene	50.0	56.79		ug/L		114	70 - 130
cis-1,2-Dichloroethene	50.0	48.79		ug/L		98	75 - 125
cis-1,3-Dichloropropene	50.0	51.13		ug/L		102	74 - 125
Cumene (isopropylbenzene)	50.0	56.77		ug/L		114	75 - 125
Cyclohexane	50.0	53.01		ug/L		106	70 - 130
Dibromomethane	50.0	51.27		ug/L		103	69 - 127
Dichlorodifluoromethane	50.0	49.04		ug/L		98	50 - 150
Ethyl methacrylate	50.0	56.72		ug/L		113	70 - 130
Ethylbenzene	50.0	53.40		ug/L		107	75 - 125
Iodomethane	50.0	47.73		ug/L		95	75 - 125
Isobutanol	1240	1430		ug/L		115	60 - 140
Methacrylonitrile	500	539.7		ug/L		108	70 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131519/3

Matrix: Water

Analysis Batch: 131519

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl methacrylate	100	109.6		ug/L		110	70 - 130
Methyl tert-butyl ether	50.0	49.52		ug/L		99	65 - 135
Methylene Chloride	50.0	44.56		ug/L		89	71 - 125
Propionitrile	500	546.8		ug/L		109	70 - 130
Propylbenzene	50.0	56.75		ug/L		113	75 - 125
Styrene	50.0	54.80		ug/L		110	75 - 125
Tetrachloroethene	50.0	55.76		ug/L		112	71 - 125
Tetrahydrofuran	100	108.3		ug/L		108	75 - 125
Toluene	50.0	50.86		ug/L		102	70 - 130
trans-1,2-Dichloroethene	50.0	52.29		ug/L		105	75 - 125
trans-1,3-Dichloropropene	50.0	50.65		ug/L		101	66 - 125
trans-1,4-Dichloro-2-butene	50.0	50.69		ug/L		101	70 - 130
Trichloroethene	50.0	46.52		ug/L		93	75 - 135
Trichlorofluoromethane	50.0	51.81		ug/L		104	60 - 140
Vinyl acetate	250	221.5		ug/L		89	60 - 140
Vinyl chloride	50.0	49.10		ug/L		98	60 - 140
Xylenes, Total	100	109.4		ug/L		109	75 - 125
m,p-Xylenes	0.0500	0.05514		mg/L		110	75 - 125
o-Xylene	0.0500	0.05424		mg/L		108	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 860-131519/4

Matrix: Water

Analysis Batch: 131519

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	45.91		ug/L		92	72 - 125	4	25
1,1,1-Trichloroethane	50.0	48.92		ug/L		98	70 - 130	6	25
1,1,2,2-Tetrachloroethane	50.0	50.22		ug/L		100	74 - 125	5	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.65		ug/L		99	60 - 140	11	25
1,1,2-Trichloroethane	50.0	50.43		ug/L		101	70 - 130	2	25
1,1-Dichloroethane	50.0	48.62		ug/L		97	70 - 130	1	25
1,1-Dichloroethene	50.0	48.32		ug/L		97	50 - 150	14	25
1,2,3-Trichloropropane	50.0	50.38		ug/L		101	75 - 125	6	25
1,2,4-Trimethylbenzene	50.0	51.38		ug/L		103	75 - 125	9	25
1,2-Dibromo-3-Chloropropane	50.0	43.73		ug/L		87	59 - 125	8	25
1,2-Dibromoethane	50.0	51.03		ug/L		102	73 - 125	2	25
1,2-Dichloroethane	50.0	50.85		ug/L		102	72 - 130	1	25
1,2-Dichloropropane	50.0	51.20		ug/L		102	74 - 125	0	25
1,3,5-Trimethylbenzene	50.0	49.98		ug/L		100	60 - 140	10	25
1,3-Butadiene	50.0	45.07		ug/L		90	60 - 150	19	25
2,2,4-Trimethylpentane	50.0	57.79		ug/L		116	70 - 130	15	25
2-Butanone (MEK)	250	277.3		ug/L		111	60 - 140	0	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131519/4

Matrix: Water

Analysis Batch: 131519

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Hexanone (MBK)	250	283.4		ug/L		113	60 - 140	2	25
2-Propanol	500	578.5		ug/L		116	70 - 120	0	25
3-Chloropropene (Allyl Chloride)	50.0	49.54		ug/L		99	70 - 130	3	25
4-Methyl-2-pentanone	250	280.4		ug/L		112	60 - 140	1	25
Acetone	250	261.8		ug/L		105	60 - 140	3	25
Acetonitrile	500	487.1		ug/L		97	60 - 140	1	25
Acrolein	250	239.5		ug/L		96	60 - 140	0	25
Acrylonitrile	500	515.0		ug/L		103	60 - 140	1	25
alpha-Chlorotoluene	50.0	44.85		ug/L		90	75 - 125	4	25
Benzene	50.0	49.04		ug/L		98	75 - 125	3	25
Bromodichloromethane	50.0	47.38		ug/L		95	75 - 125	1	25
Bromoform	50.0	43.95		ug/L		88	70 - 130	2	25
Bromomethane	50.0	46.66		ug/L		93	60 - 140	7	25
Carbon disulfide	50.0	45.38		ug/L		91	60 - 140	10	25
Carbon tetrachloride	50.0	45.73		ug/L		91	70 - 130	11	25
Chlorobenzene	50.0	49.26		ug/L		99	65 - 135	3	25
Chlorodibromomethane	50.0	45.32		ug/L		91	73 - 125	2	25
Chloroethane	50.0	46.44		ug/L		93	60 - 140	7	25
Chloroform	50.0	50.35		ug/L		101	70 - 121	1	25
Chloromethane	50.0	40.86		ug/L		82	60 - 140	9	25
Chloroprene	50.0	51.50		ug/L		103	70 - 130	10	25
cis-1,2-Dichloroethene	50.0	48.62		ug/L		97	75 - 125	0	25
cis-1,3-Dichloropropene	50.0	51.44		ug/L		103	74 - 125	1	25
Cumene (isopropylbenzene)	50.0	53.00		ug/L		106	75 - 125	7	25
Cyclohexane	50.0	47.22		ug/L		94	70 - 130	12	25
Dibromomethane	50.0	50.80		ug/L		102	69 - 127	1	25
Ethyl methacrylate	50.0	55.77		ug/L		112	70 - 130	2	25
Ethylbenzene	50.0	51.09		ug/L		102	75 - 125	4	25
Hexane	50.0	53.73		ug/L		107	72 - 125	20	25
Iodomethane	50.0	45.18		ug/L		90	75 - 125	6	25
Isobutanol	1240	1453		ug/L		117	60 - 140	2	25
Methacrylonitrile	500	545.4		ug/L		109	70 - 130	1	25
Methyl methacrylate	100	111.3		ug/L		111	70 - 130	2	25
Methyl tert-butyl ether	50.0	49.09		ug/L		98	65 - 135	1	25
Methylene Chloride	50.0	43.61		ug/L		87	71 - 125	2	25
Propionitrile	500	562.7		ug/L		113	70 - 130	3	25
Propylbenzene	50.0	50.68		ug/L		101	75 - 125	11	25
Styrene	50.0	53.04		ug/L		106	75 - 125	3	25
Tetrachloroethene	50.0	50.29		ug/L		101	71 - 125	10	25
Tetrahydrofuran	100	111.6		ug/L		112	75 - 125	3	25
Toluene	50.0	49.31		ug/L		99	70 - 130	3	25
trans-1,2-Dichloroethene	50.0	49.24		ug/L		98	75 - 125	6	25
trans-1,3-Dichloropropene	50.0	49.80		ug/L		100	66 - 125	2	25
trans-1,4-Dichloro-2-butene	50.0	48.77		ug/L		98	70 - 130	4	25
Trichloroethene	50.0	44.57		ug/L		89	75 - 135	4	25
Trichlorofluoromethane	50.0	44.62		ug/L		89	60 - 140	15	25
Vinyl acetate	250	224.5		ug/L		90	60 - 140	1	25
Vinyl chloride	50.0	43.76		ug/L		88	60 - 140	11	25
Xylenes, Total	100	105.1		ug/L		105	75 - 125	4	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131519/4

Matrix: Water

Analysis Batch: 131519

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes	0.0500	0.05293		mg/L		106	75 - 125	4	25
o-Xylene	0.0500	0.05218		mg/L		104	75 - 125	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 860-61632-1 MS

Matrix: Water

Analysis Batch: 131519

Client Sample ID: MW-47

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<1.29	U	100	90.77		ug/L		91	72 - 125
1,1,1-Trichloroethane	<1.17	U	100	92.53		ug/L		93	75 - 125
1,1,2,2-Tetrachloroethane	<0.940	U	100	99.57		ug/L		100	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<2.22	U	100	87.29		ug/L		87	60 - 140
1,1,2-Trichloroethane	<0.822	U	100	97.74		ug/L		98	75 - 127
1,1-Dichloroethane	<1.27	U	100	94.48		ug/L		94	72 - 125
1,1-Dichloroethene	<1.48	U	100	92.67		ug/L		93	59 - 172
1,2,3-Trichloropropane	<0.940	U	100	99.94		ug/L		100	75 - 125
1,2,4-Trimethylbenzene	<0.834	U	100	103.0		ug/L		103	75 - 125
1,2-Dibromo-3-Chloropropane	<1.34	U	100	85.20		ug/L		85	59 - 125
1,2-Dibromoethane	<2.00	U	100	100.0		ug/L		100	73 - 125
1,2-Dichloroethane	<0.744	U	100	99.16		ug/L		99	68 - 127
1,2-Dichloropropane	<1.11	U	100	99.50		ug/L		99	74 - 125
1,3,5-Trimethylbenzene	<0.822	U	100	99.86		ug/L		100	70 - 125
1,3-Butadiene	<1.14	U	100	83.34		ug/L		83	70 - 150
2,2,4-Trimethylpentane	<1.00	U *	100	103.0		ug/L		103	70 - 130
2-Butanone (MEK)	<16.6	U	500	510.4		ug/L		102	60 - 140
2-Hexanone (MBK)	<14.9	U	500	528.1		ug/L		106	60 - 140
2-Propanol	<10.5	U	1000	1097		ug/L		110	70 - 120
3-Chloropropene (Allyl Chloride)	<1.19	U	100	97.05		ug/L		97	70 - 130
4-Methyl-2-pentanone	<15.0	U	500	529.5		ug/L		106	60 - 140
Acetone	<6.13	U	500	480.0		ug/L		96	60 - 140
Acetonitrile	<29.2	U	1000	917.6		ug/L		92	60 - 140
Acrolein	<22.2	U	500	453.7		ug/L		91	50 - 150
Acrylonitrile	<28.6	U	1000	977.1		ug/L		98	50 - 150
alpha-Chlorotoluene	<4.51	U	100	90.22		ug/L		90	70 - 130
Benzene	<0.919	U	100	95.79		ug/L		96	66 - 142
Bromodichloromethane	<1.10	U	100	93.61		ug/L		94	75 - 125
Bromoform	<1.27	U	100	86.62		ug/L		87	75 - 125
Bromomethane	<2.84	U	100	86.56		ug/L		87	60 - 140
Carbon disulfide	<3.30	U	100	86.41		ug/L		86	60 - 140
Carbon tetrachloride	<1.79	U	100	86.97		ug/L		87	62 - 125
Chlorobenzene	<0.910	U	100	97.20		ug/L		97	60 - 133
Chlorodibromomethane	<1.09	U	100	89.31		ug/L		89	73 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61632-1 MS

Matrix: Water

Analysis Batch: 131519

Client Sample ID: MW-47

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	<3.97	U	100	84.60		ug/L		85	60 - 140
Chloroform	<0.928	U	100	98.13		ug/L		98	70 - 130
Chloromethane	<4.07	U	100	74.83		ug/L		75	60 - 140
Chloroprene	<1.20	U	100	97.00		ug/L		97	70 - 130
cis-1,2-Dichloroethene	<0.914	U	100	94.76		ug/L		95	75 - 125
cis-1,3-Dichloropropene	<2.13	U	100	101.4		ug/L		101	74 - 125
Cumene (isopropylbenzene)	<1.18	U	100	101.7		ug/L		102	75 - 125
Cyclohexane	<2.57	U	100	86.24		ug/L		86	70 - 130
Dibromomethane	<0.714	U	100	99.46		ug/L		99	69 - 127
Ethyl methacrylate	<2.24	U	100	109.4		ug/L		109	70 - 130
Ethylbenzene	<0.770	U	100	99.06		ug/L		99	75 - 125
Hexane	<1.03	U *	100	97.98		ug/L		98	72 - 125
Iodomethane	<13.0	U	100	88.07		ug/L		88	75 - 125
Isobutanol	<34.2	U	2480	2717		ug/L		110	60 - 140
Methacrylonitrile	<5.43	U	1000	1035		ug/L		103	70 - 130
Methyl methacrylate	<4.50	U	200	210.7		ug/L		105	70 - 130
Methyl tert-butyl ether	<2.78	U	100	96.80		ug/L		97	65 - 135
Methylene Chloride	<3.45	U	100	85.40		ug/L		85	75 - 125
Propionitrile	<6.68	U	1000	1053		ug/L		105	70 - 130
Propylbenzene	<0.858	U	100	100.6		ug/L		101	75 - 125
Styrene	<1.24	U	100	104.1		ug/L		104	75 - 125
Tetrachloroethene	<1.31	U	100	96.93		ug/L		97	71 - 125
Tetrahydrofuran	<3.67	U	200	204.3		ug/L		102	75 - 125
Toluene	<0.950	U	100	95.37		ug/L		95	59 - 139
trans-1,2-Dichloroethene	<0.736	U	100	95.91		ug/L		96	75 - 125
trans-1,3-Dichloropropene	<2.53	U	100	98.68		ug/L		99	66 - 125
trans-1,4-Dichloro-2-butene	<2.70	U	100	93.51		ug/L		94	70 - 130
Trichloroethene	<3.00	U	100	85.72		ug/L		86	62 - 137
Trichlorofluoromethane	<1.12	U	100	81.51		ug/L		82	60 - 140
Vinyl acetate	<4.28	U	500	439.5		ug/L		88	60 - 140
Vinyl chloride	<0.856	U	100	79.88		ug/L		80	60 - 140
Xylenes, Total	<2.48	U	200	204.3		ug/L		102	75 - 125
m,p-Xylenes	<0.00248	U	0.100	0.1024		mg/L		102	75 - 125
o-Xylene	<0.00100	U	0.100	0.1019		mg/L		102	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
4-Bromofluorobenzene (Surr)	103		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	99		80 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-131401/1-A

Matrix: Water

Analysis Batch: 131865

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 131401

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.150	U	0.571	0.150	ug/L		11/16/23 11:57	11/20/23 16:19	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	118		37 - 133	11/16/23 11:57	11/20/23 16:19	1

Lab Sample ID: LCS 860-131401/2-A
Matrix: Water
Analysis Batch: 131865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 131401

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.86	0.8169		ug/L		29	27 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	69		35 - 130
2-Fluorophenol (Surr)	49		19 - 120
2-Fluorobiphenyl	88		43 - 130
Nitrobenzene-d5 (Surr)	95		37 - 133
Phenol-d5 (Surr)	35		8 - 124
p-Terphenyl-d14 (Surr)	85		47 - 130

Lab Sample ID: LCSD 860-131401/3-A
Matrix: Water
Analysis Batch: 131865

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 131401

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1,4-Dioxane	2.86	0.7758		ug/L		27	27 - 130	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	68		35 - 130
2-Fluorophenol (Surr)	46		19 - 120
2-Fluorobiphenyl	93		43 - 130
Nitrobenzene-d5 (Surr)	87		37 - 133
Phenol-d5 (Surr)	29		8 - 124
p-Terphenyl-d14 (Surr)	87		47 - 130

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 860-131552/1-A
Matrix: Water
Analysis Batch: 131659

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 131552

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/17/23 17:26	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/17/23 08:38	11/17/23 17:26	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/17/23 08:38	11/17/23 17:26	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/17/23 08:38	11/17/23 17:26	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/17/23 08:38	11/17/23 17:26	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/17/23 08:38	11/17/23 17:26	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/17/23 08:38	11/17/23 17:26	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/17/23 08:38	11/17/23 17:26	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/17/23 08:38	11/17/23 17:26	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/17/23 08:38	11/17/23 17:26	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-131552/1-A

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 131552

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/17/23 17:26	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/17/23 17:26	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/17/23 08:38	11/17/23 17:26	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/17/23 08:38	11/17/23 17:26	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/17/23 08:38	11/17/23 17:26	1
3,3'-Dimethylbenzidine	<0.444	U	8.00	0.444	ug/L		11/17/23 08:38	11/17/23 17:26	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/17/23 08:38	11/17/23 17:26	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/17/23 08:38	11/17/23 17:26	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/17/23 08:38	11/17/23 17:26	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/17/23 08:38	11/17/23 17:26	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/17/23 08:38	11/17/23 17:26	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/17/23 08:38	11/17/23 17:26	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/17/23 08:38	11/17/23 17:26	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/17/23 08:38	11/17/23 17:26	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/17/23 08:38	11/17/23 17:26	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/17/23 08:38	11/17/23 17:26	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/17/23 08:38	11/17/23 17:26	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/17/23 08:38	11/17/23 17:26	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/17/23 08:38	11/17/23 17:26	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/17/23 08:38	11/17/23 17:26	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/17/23 08:38	11/17/23 17:26	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/17/23 08:38	11/17/23 17:26	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/17/23 08:38	11/17/23 17:26	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/17/23 17:26	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/17/23 17:26	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/17/23 17:26	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/17/23 08:38	11/17/23 17:26	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/17/23 17:26	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/17/23 08:38	11/17/23 17:26	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/17/23 08:38	11/17/23 17:26	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/17/23 08:38	11/17/23 17:26	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/17/23 08:38	11/17/23 17:26	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/17/23 08:38	11/17/23 17:26	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/17/23 08:38	11/17/23 17:26	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-131552/1-A

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 131552

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/17/23 17:26	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/17/23 17:26	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/17/23 17:26	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/17/23 08:38	11/17/23 17:26	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/17/23 08:38	11/17/23 17:26	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/17/23 08:38	11/17/23 17:26	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/17/23 08:38	11/17/23 17:26	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/17/23 08:38	11/17/23 17:26	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/17/23 08:38	11/17/23 17:26	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/17/23 08:38	11/17/23 17:26	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/17/23 08:38	11/17/23 17:26	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/17/23 08:38	11/17/23 17:26	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/17/23 17:26	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/17/23 08:38	11/17/23 17:26	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/17/23 08:38	11/17/23 17:26	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/17/23 08:38	11/17/23 17:26	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/17/23 08:38	11/17/23 17:26	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/17/23 17:26	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/17/23 08:38	11/17/23 17:26	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/17/23 08:38	11/17/23 17:26	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/17/23 08:38	11/17/23 17:26	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/17/23 08:38	11/17/23 17:26	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/17/23 08:38	11/17/23 17:26	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/17/23 08:38	11/17/23 17:26	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/17/23 17:26	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/17/23 08:38	11/17/23 17:26	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/17/23 08:38	11/17/23 17:26	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/17/23 08:38	11/17/23 17:26	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/17/23 08:38	11/17/23 17:26	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/17/23 08:38	11/17/23 17:26	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/17/23 08:38	11/17/23 17:26	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/17/23 17:26	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/17/23 08:38	11/17/23 17:26	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/17/23 08:38	11/17/23 17:26	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/17/23 08:38	11/17/23 17:26	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/17/23 08:38	11/17/23 17:26	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/17/23 08:38	11/17/23 17:26	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/17/23 08:38	11/17/23 17:26	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/17/23 08:38	11/17/23 17:26	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/17/23 08:38	11/17/23 17:26	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-131552/1-A

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 131552

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Phenylene diamine	<10.0	U	10.0	10.0	ug/L		11/17/23 08:38	11/17/23 17:26	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/17/23 08:38	11/17/23 17:26	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/17/23 08:38	11/17/23 17:26	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/17/23 08:38	11/17/23 17:26	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/17/23 08:38	11/17/23 17:26	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/17/23 08:38	11/17/23 17:26	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/17/23 08:38	11/17/23 17:26	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/17/23 08:38	11/17/23 17:26	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/17/23 08:38	11/17/23 17:26	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/17/23 08:38	11/17/23 17:26	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/17/23 08:38	11/17/23 17:26	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/17/23 08:38	11/17/23 17:26	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/17/23 08:38	11/17/23 17:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	37		31 - 132	11/17/23 08:38	11/17/23 17:26	1
2-Fluorobiphenyl	41		40 - 130	11/17/23 08:38	11/17/23 17:26	1
2-Fluorophenol (Surr)	27		21 - 114	11/17/23 08:38	11/17/23 17:26	1
Nitrobenzene-d5 (Surr)	41		37 - 130	11/17/23 08:38	11/17/23 17:26	1
Phenol-d5 (Surr)	19		16 - 117	11/17/23 08:38	11/17/23 17:26	1
p-Terphenyl-d14	74		20 - 141	11/17/23 08:38	11/17/23 17:26	1

Lab Sample ID: LCS 860-131552/2-A

Matrix: Water

Analysis Batch: 131841

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1'-Biphenyl	20.0	14.52		ug/L		73	41 - 117
1,2,4,5-Tetrachlorobenzene	20.0	13.69		ug/L		68	39 - 120
1,2,4-Trichlorobenzene	20.0	14.15		ug/L		71	34 - 117
1,2-Dichlorobenzene	20.0	14.45		ug/L		72	38 - 111
1,3,5-Trinitrobenzene	20.0	18.50		ug/L		93	35 - 128
1,3-Dichlorobenzene	20.0	14.37		ug/L		72	37 - 111
1,3-Dinitrobenzene	20.0	16.26		ug/L		81	36 - 131
1,4-Dichlorobenzene	20.0	14.06		ug/L		70	37 - 111
1,4-Naphthoquinone	20.0	16.64		ug/L		83	10 - 150
1-Naphthylamine	20.0	10.19		ug/L		51	40 - 120
2,2'-oxybis[1-chloropropane]	20.0	16.90		ug/L		85	10 - 150
2,3,4,6-Tetrachlorophenol	20.0	18.44		ug/L		92	33 - 132
2,4,5-Trichlorophenol	20.0	18.03		ug/L		90	39 - 125
2,4,6-Trichlorophenol	20.0	17.01		ug/L		85	42 - 125
2,4-Dichlorophenol	20.0	15.67		ug/L		78	38 - 120
2,4-Dimethylphenol	20.0	18.98		ug/L		95	39 - 117
2,4-Dinitrophenol	20.0	17.93		ug/L		90	13 - 152
2,4-Dinitrotoluene	20.0	19.05		ug/L		95	41 - 128
2,6-Dichlorophenol	20.0	15.18		ug/L		76	42 - 118
2,6-Dinitrotoluene	20.0	17.42		ug/L		87	42 - 127
2-Acetylaminofluorene	20.0	16.17		ug/L		81	40 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-131552/2-A

Matrix: Water

Analysis Batch: 131841

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chloronaphthalene	20.0	13.68		ug/L		68	40 - 118
2-Chlorophenol	20.0	15.01		ug/L		75	41 - 108
2-Methylnaphthalene	20.0	15.13		ug/L		76	37 - 112
2-Methylphenol	20.0	14.50		ug/L		72	36 - 125
2-Naphthylamine	20.0	8.438		ug/L		42	40 - 120
2-Nitroaniline	20.0	15.45		ug/L		77	34 - 126
2-Nitrophenol	20.0	15.50		ug/L		78	38 - 125
2-Picoline	20.0	6.420		ug/L		32	11 - 107
2-Toluidine	20.0	12.65		ug/L		63	38 - 124
3 & 4 Methylphenol	20.0	12.91		ug/L		65	35 - 116
3,3'-Dichlorobenzidine	20.0	14.50		ug/L		73	29 - 141
3,3'-Dimethylbenzidine	20.0	2.353	J *	ug/L		12	40 - 130
3-Methylcholanthrene	20.0	16.23		ug/L		81	20 - 130
3-Nitroaniline	20.0	16.09		ug/L		80	42 - 123
4,6-Dinitro-2-methylphenol	20.0	17.29		ug/L		86	12 - 157
4-Aminobiphenyl	20.0	7.033	J	ug/L		35	20 - 130
4-Bromophenyl phenyl ether	20.0	15.96		ug/L		80	40 - 126
4-Chloro-3-methylphenol	20.0	16.91		ug/L		85	40 - 119
4-Chloroaniline	20.0	11.77		ug/L		59	39 - 111
4-Chlorophenyl phenyl ether	20.0	15.44		ug/L		77	40 - 122
4-Nitroaniline	20.0	15.28		ug/L		76	42 - 125
4-Nitroquinoline-1-oxide	20.0	14.01		ug/L		70	20 - 130
7,12-Dimethylbenz(a)anthracene	20.0	11.67		ug/L		58	40 - 120
Acenaphthene	20.0	15.38		ug/L		77	41 - 116
Acenaphthylene	20.0	15.91		ug/L		80	41 - 118
Acetophenone	20.0	14.65		ug/L		73	23 - 175
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		3	
Aniline	20.0	10.35		ug/L		52	31 - 100
Anthracene	20.0	16.39		ug/L		82	39 - 127
Benzo[a]anthracene	20.0	15.92		ug/L		80	40 - 129
Benzo[a]pyrene	20.0	17.06		ug/L		85	36 - 141
Benzo[b]fluoranthene	20.0	16.12		ug/L		81	34 - 139
Benzo[g,h,i]perylene	20.0	17.51		ug/L		88	32 - 141
Benzo[k]fluoranthene	20.0	16.10		ug/L		80	31 - 139
Benzyl alcohol	20.0	16.02		ug/L		80	37 - 102
Bis(2-chloroethoxy)methane	20.0	15.23		ug/L		76	36 - 113
Bis(2-chloroethyl)ether	20.0	15.34		ug/L		77	38 - 111
Bis(2-ethylhexyl) phthalate	20.0	17.53		ug/L		88	44 - 136
Butyl benzyl phthalate	20.0	17.76		ug/L		89	44 - 133
Chrysene	20.0	15.66		ug/L		78	41 - 124
Dibenz(a,h)anthracene	20.0	18.28		ug/L		91	35 - 143
Dibenzofuran	20.0	15.38		ug/L		77	41 - 119
Diethyl phthalate	20.0	16.55		ug/L		83	41 - 125
Dimethyl phthalate	20.0	16.40		ug/L		82	42 - 123
Di-n-butyl phthalate	20.0	21.31		ug/L		107	41 - 133
Di-n-octyl phthalate	20.0	18.65		ug/L		93	34 - 145
Diphenyl ether	20.0	14.70		ug/L		73	40 - 130
Ethyl methanesulfonate	20.0	15.33		ug/L		77	40 - 127

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-131552/2-A

Matrix: Water

Analysis Batch: 131841

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	20.0	17.55		ug/L		88	38 - 132
Fluorene	20.0	15.81		ug/L		79	41 - 121
Hexachlorobenzene	20.0	14.70		ug/L		74	39 - 128
Hexachlorobutadiene	20.0	14.47		ug/L		72	31 - 120
Hexachlorocyclopentadiene	20.0	15.22		ug/L		76	15 - 117
Hexachloroethane	20.0	13.60		ug/L		68	37 - 109
Hexachloropropene	20.0	11.07		ug/L		55	24 - 122
Indeno[1,2,3-cd]pyrene	20.0	18.19		ug/L		91	35 - 141
Isophorone	20.0	16.56		ug/L		83	40 - 115
Methyl methanesulfonate	20.0	13.27		ug/L		66	33 - 120
Naphthalene	20.0	14.41		ug/L		72	37 - 113
Nitrobenzene	20.0	15.45		ug/L		77	37 - 114
N-Nitro-o-toluidine	20.0	16.00		ug/L		80	40 - 120
N-Nitrosodiethylamine	20.0	16.02		ug/L		80	42 - 115
N-Nitrosodimethylamine	20.0	12.50		ug/L		62	28 - 126
N-Nitrosodi-n-butylamine	20.0	13.69		ug/L		68	34 - 122
N-Nitrosodi-n-propylamine	20.0	16.86		ug/L		84	38 - 117
N-Nitrosodiphenylamine	20.0	16.84		ug/L		84	40 - 127
N-Nitrosomethylethylamine	20.0	15.34		ug/L		77	41 - 108
N-Nitrosomorpholine	20.0	16.41		ug/L		82	32 - 115
N-Nitrosopiperidine	20.0	15.42		ug/L		77	39 - 115
N-Nitrosopyrrolidine	20.0	15.11		ug/L		76	36 - 121
p-Dimethylamino azobenzene	20.0	13.74		ug/L		69	38 - 124
Pentachlorobenzene	20.0	13.99		ug/L		70	40 - 123
Pentachloronitrobenzene	20.0	16.38		ug/L		82	40 - 120
Pentachlorophenol	20.0	16.13		ug/L		81	10 - 137
Phenacetin	20.0	15.86		ug/L		79	20 - 130
Phenanthrene	20.0	15.84		ug/L		79	39 - 126
Phenol	20.0	8.791		ug/L		44	15 - 106
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150
Pronamide	20.0	18.31		ug/L		92	25 - 120
Pyrene	20.0	14.70		ug/L		74	40 - 130
Pyridine	20.0	5.611		ug/L		28	16 - 135
Safrole, Total	20.0	15.39		ug/L		77	40 - 120
Aramite Peak 2	10.0	8.863		ug/L		89	35 - 130
Isosafrole Peak 1	3.20	<2.46	U	ug/L		71	40 - 120
Diallate Peak 2	5.20	4.446	J	ug/L		85	38 - 130
Isosafrole Peak 2	16.8	12.64		ug/L		75	40 - 120
Diallate Peak 1	14.8	13.39		ug/L		90	38 - 130
Aramite Peak 1	10.0	8.942		ug/L		89	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	96		31 - 132
2-Fluorobiphenyl	88		40 - 130
2-Fluorophenol (Surr)	66		21 - 114
Nitrobenzene-d5 (Surr)	90		37 - 130
Phenol-d5 (Surr)	51		16 - 117
p-Terphenyl-d14	105		20 - 141

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-131552/3-A

Matrix: Water

Analysis Batch: 131841

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	20.0	14.48		ug/L		72	41 - 117	0	30
1,2,4,5-Tetrachlorobenzene	20.0	13.56		ug/L		68	39 - 120	1	30
1,2,4-Trichlorobenzene	20.0	14.00		ug/L		70	34 - 117	1	30
1,2-Dichlorobenzene	20.0	14.57		ug/L		73	38 - 111	1	30
1,3,5-Trinitrobenzene	20.0	19.24		ug/L		96	35 - 128	4	30
1,3-Dichlorobenzene	20.0	14.16		ug/L		71	37 - 111	1	30
1,3-Dinitrobenzene	20.0	16.81		ug/L		84	36 - 131	3	30
1,4-Dichlorobenzene	20.0	14.15		ug/L		71	37 - 111	1	30
1,4-Naphthoquinone	20.0	16.66		ug/L		83	10 - 150	0	30
1-Naphthylamine	20.0	10.32		ug/L		52	40 - 120	1	30
2,2'-oxybis[1-chloropropane]	20.0	16.61		ug/L		83	10 - 150	2	30
2,3,4,6-Tetrachlorophenol	20.0	19.12		ug/L		96	33 - 132	4	30
2,4,5-Trichlorophenol	20.0	18.23		ug/L		91	39 - 125	1	30
2,4,6-Trichlorophenol	20.0	17.27		ug/L		86	42 - 125	2	30
2,4-Dichlorophenol	20.0	15.76		ug/L		79	38 - 120	1	30
2,4-Dimethylphenol	20.0	19.28		ug/L		96	39 - 117	2	30
2,4-Dinitrophenol	20.0	19.16		ug/L		96	13 - 152	7	30
2,4-Dinitrotoluene	20.0	19.55		ug/L		98	41 - 128	3	30
2,6-Dichlorophenol	20.0	15.08		ug/L		75	42 - 118	1	30
2,6-Dinitrotoluene	20.0	17.53		ug/L		88	42 - 127	1	30
2-Acetylaminofluorene	20.0	17.48		ug/L		87	40 - 130	8	30
2-Chloronaphthalene	20.0	13.89		ug/L		69	40 - 118	2	30
2-Chlorophenol	20.0	15.01		ug/L		75	41 - 108	0	30
2-Methylnaphthalene	20.0	15.28		ug/L		76	37 - 112	1	30
2-Methylphenol	20.0	14.37		ug/L		72	36 - 125	1	30
2-Naphthylamine	20.0	8.198		ug/L		41	40 - 120	3	30
2-Nitroaniline	20.0	15.74		ug/L		79	34 - 126	2	30
2-Nitrophenol	20.0	16.38		ug/L		82	38 - 125	5	30
2-Picoline	20.0	6.306		ug/L		32	11 - 107	2	30
2-Toluidine	20.0	12.42		ug/L		62	38 - 124	2	30
3 & 4 Methylphenol	20.0	13.28		ug/L		66	35 - 116	3	30
3,3'-Dichlorobenzidine	20.0	14.61		ug/L		73	29 - 141	1	30
3,3'-Dimethylbenzidine	20.0	2.190	J *	ug/L		11	40 - 130	7	30
3-Methylcholanthrene	20.0	16.28		ug/L		81	20 - 130	0	30
3-Nitroaniline	20.0	16.24		ug/L		81	42 - 123	1	30
4,6-Dinitro-2-methylphenol	20.0	18.52		ug/L		93	12 - 157	7	30
4-Aminobiphenyl	20.0	6.208	J	ug/L		31	20 - 130	12	30
4-Bromophenyl phenyl ether	20.0	15.83		ug/L		79	40 - 126	1	30
4-Chloro-3-methylphenol	20.0	17.04		ug/L		85	40 - 119	1	30
4-Chloroaniline	20.0	12.04		ug/L		60	39 - 111	2	30
4-Chlorophenyl phenyl ether	20.0	15.71		ug/L		79	40 - 122	2	30
4-Nitroaniline	20.0	14.28		ug/L		71	42 - 125	7	30
4-Nitroquinoline-1-oxide	20.0	15.40		ug/L		77	20 - 130	9	30
7,12-Dimethylbenz(a)anthracene	20.0	11.57		ug/L		58	40 - 120	1	30
Acenaphthene	20.0	15.38		ug/L		77	41 - 116	0	30
Acenaphthylene	20.0	15.99		ug/L		80	41 - 118	1	30
Acetophenone	20.0	14.78		ug/L		74	23 - 175	1	30
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		3		1	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-131552/3-A

Matrix: Water

Analysis Batch: 131841

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aniline	20.0	10.31		ug/L		52	31 - 100	0	30
Anthracene	20.0	16.72		ug/L		84	39 - 127	2	30
Benzo[a]anthracene	20.0	15.89		ug/L		79	40 - 129	0	30
Benzo[a]pyrene	20.0	17.08		ug/L		85	36 - 141	0	30
Benzo[b]fluoranthene	20.0	16.03		ug/L		80	34 - 139	1	30
Benzo[g,h,i]perylene	20.0	17.44		ug/L		87	32 - 141	0	30
Benzo[k]fluoranthene	20.0	16.06		ug/L		80	31 - 139	0	30
Benzyl alcohol	20.0	16.92		ug/L		85	37 - 102	5	30
Bis(2-chloroethoxy)methane	20.0	14.91		ug/L		75	36 - 113	2	30
Bis(2-chloroethyl)ether	20.0	15.63		ug/L		78	38 - 111	2	30
Bis(2-ethylhexyl) phthalate	20.0	17.76		ug/L		89	44 - 136	1	30
Butyl benzyl phthalate	20.0	18.14		ug/L		91	44 - 133	2	30
Chrysene	20.0	15.82		ug/L		79	41 - 124	1	30
Dibenz(a,h)anthracene	20.0	18.17		ug/L		91	35 - 143	1	30
Dibenzofuran	20.0	15.21		ug/L		76	41 - 119	1	30
Diethyl phthalate	20.0	16.54		ug/L		83	41 - 125	0	30
Dimethyl phthalate	20.0	16.80		ug/L		84	42 - 123	2	30
Di-n-butyl phthalate	20.0	21.68		ug/L		108	41 - 133	2	30
Di-n-octyl phthalate	20.0	18.90		ug/L		95	34 - 145	1	30
Diphenyl ether	20.0	14.51		ug/L		73	40 - 130	1	30
Ethyl methanesulfonate	20.0	15.35		ug/L		77	40 - 127	0	30
Fluoranthene	20.0	17.77		ug/L		89	38 - 132	1	30
Fluorene	20.0	15.99		ug/L		80	41 - 121	1	30
Hexachlorobenzene	20.0	14.77		ug/L		74	39 - 128	0	30
Hexachlorobutadiene	20.0	13.83		ug/L		69	31 - 120	5	30
Hexachlorocyclopentadiene	20.0	15.51		ug/L		78	15 - 117	2	30
Hexachloroethane	20.0	13.64		ug/L		68	37 - 109	0	30
Hexachloropropene	20.0	11.34		ug/L		57	24 - 122	2	30
Indeno[1,2,3-cd]pyrene	20.0	18.06		ug/L		90	35 - 141	1	30
Isophorone	20.0	16.49		ug/L		82	40 - 115	0	30
Methyl methanesulfonate	20.0	13.23		ug/L		66	33 - 120	0	30
Naphthalene	20.0	14.31		ug/L		72	37 - 113	1	30
Nitrobenzene	20.0	15.34		ug/L		77	37 - 114	1	30
N-Nitro-o-toluidine	20.0	16.61		ug/L		83	40 - 120	4	30
N-Nitrosodiethylamine	20.0	15.65		ug/L		78	42 - 115	2	30
N-Nitrosodimethylamine	20.0	12.55		ug/L		63	28 - 126	0	30
N-Nitrosodi-n-butylamine	20.0	13.51		ug/L		68	34 - 122	1	30
N-Nitrosodi-n-propylamine	20.0	16.67		ug/L		83	38 - 117	1	30
N-Nitrosodiphenylamine	20.0	17.46		ug/L		87	40 - 127	4	30
N-Nitrosomethylethylamine	20.0	15.21		ug/L		76	41 - 108	1	30
N-Nitrosomorpholine	20.0	16.26		ug/L		81	32 - 115	1	30
N-Nitrosopiperidine	20.0	15.47		ug/L		77	39 - 115	0	30
N-Nitrosopyrrolidine	20.0	15.62		ug/L		78	36 - 121	3	30
p-Dimethylamino azobenzene	20.0	14.27		ug/L		71	38 - 124	4	30
Pentachlorobenzene	20.0	14.06		ug/L		70	40 - 123	1	30
Pentachloronitrobenzene	20.0	16.43		ug/L		82	40 - 120	0	30
Pentachlorophenol	20.0	17.49		ug/L		87	10 - 137	8	30
Phenacetin	20.0	16.66		ug/L		83	20 - 130	5	30
Phenanthrene	20.0	15.90		ug/L		79	39 - 126	0	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-131552/3-A

Matrix: Water

Analysis Batch: 131841

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol	20.0	9.070		ug/L		45	15 - 106	3	30
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150	NC	30
Pronamide	20.0	18.59		ug/L		93	25 - 120	2	30
Pyrene	20.0	14.53		ug/L		73	40 - 130	1	30
Pyridine	20.0	5.554		ug/L		28	16 - 135	1	30
Safrole, Total	20.0	15.34		ug/L		77	40 - 120	0	30
Aramite Peak 2	10.0	9.219		ug/L		92	35 - 130	4	30
Isosafrole Peak 1	3.20	<2.46	U	ug/L		74	40 - 120	4	30
Diallate Peak 2	5.20	4.254	J	ug/L		82	38 - 130	4	30
Isosafrole Peak 2	16.8	12.90		ug/L		77	40 - 120	2	30
Diallate Peak 1	14.8	13.59		ug/L		92	38 - 130	1	30
Aramite Peak 1	10.0	9.416		ug/L		94	35 - 130	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	104		31 - 132
2-Fluorobiphenyl	88		40 - 130
2-Fluorophenol (Surr)	65		21 - 114
Nitrobenzene-d5 (Surr)	91		37 - 130
Phenol-d5 (Surr)	51		16 - 117
p-Terphenyl-d14	106		20 - 141

Lab Sample ID: 860-61549-B-2-B MS

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	<0.428	U	20.0	9.685		ug/L		48	41 - 117
1,2,4,5-Tetrachlorobenzene	<0.672	U	20.0	9.629		ug/L		48	39 - 120
1,2,4-Trichlorobenzene	<0.680	U	20.0	9.918		ug/L		50	34 - 117
1,2-Dichlorobenzene	<0.296	U	20.0	10.35		ug/L		52	38 - 111
1,3,5-Trinitrobenzene	<1.43	U F1	20.0	13.52	F1	ug/L		68	70 - 130
1,3-Dichlorobenzene	<0.350	U	20.0	10.15		ug/L		51	37 - 111
1,3-Dinitrobenzene	<0.112	U	20.0	10.28		ug/L		51	36 - 131
1,4-Dichlorobenzene	<0.428	U	20.0	10.16		ug/L		51	37 - 111
1,4-Naphthoquinone	<1.85	U F1	20.0	10.56	F1	ug/L		53	70 - 130
1-Naphthylamine	<0.232	U	20.0	8.326		ug/L		42	40 - 120
2,2'-oxybis[1-chloropropane]	<0.139	U	20.0	11.25		ug/L		56	32 - 110
2,3,4,6-Tetrachlorophenol	<0.174	U	20.0	11.85		ug/L		59	33 - 132
2,4,5-Trichlorophenol	<0.108	U	20.0	11.54		ug/L		58	39 - 125
2,4,6-Trichlorophenol	<0.135	U	20.0	10.99		ug/L		55	42 - 125
2,4-Dichlorophenol	<0.115	U	20.0	10.26		ug/L		51	38 - 120
2,4-Dimethylphenol	<0.148	U	20.0	12.03		ug/L		60	39 - 117
2,4-Dinitrophenol	<1.46	U	20.0	11.43		ug/L		57	13 - 152
2,4-Dinitrotoluene	<0.127	U	20.0	12.16		ug/L		61	41 - 128
2,6-Dichlorophenol	<0.126	U	20.0	10.03		ug/L		50	42 - 118
2,6-Dinitrotoluene	<0.199	U	20.0	11.23		ug/L		56	42 - 127
2-Acetylaminofluorene	<1.52	U F1	20.0	13.57	F1	ug/L		68	70 - 130
2-Chloronaphthalene	<1.09	U	20.0	9.455		ug/L		47	40 - 118

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61549-B-2-B MS

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorophenol	<0.0135	U	20.0	9.964		ug/L		50	41 - 108
2-Methylnaphthalene	<0.480	U	20.0	10.51		ug/L		53	37 - 112
2-Methylphenol	<0.159	U	20.0	9.864		ug/L		49	36 - 125
2-Naphthylamine	<0.595	U F1	20.0	7.855	J F1	ug/L		39	40 - 120
2-Nitroaniline	<0.163	U	20.0	9.906		ug/L		50	34 - 126
2-Nitrophenol	<0.135	U	20.0	11.07		ug/L		55	38 - 125
2-Picoline	<0.215	U F2	20.0	3.674		ug/L		18	11 - 107
2-Toluidine	<0.934	U F1	20.0	9.762	F1	ug/L		49	70 - 130
3 & 4 Methylphenol	<0.163	U	20.0	8.706		ug/L		44	35 - 116
3,3'-Dichlorobenzidine	<0.220	U	20.0	12.05		ug/L		60	29 - 141
3,3'-Dimethylbenzidine	<0.444	U F2 *- F1	20.0	1.629	J F1	ug/L		8	70 - 130
3-Methylcholanthrene	<0.159	U	20.0	14.46		ug/L		72	20 - 130
3-Nitroaniline	<0.344	U	20.0	10.76		ug/L		54	42 - 123
4,6-Dinitro-2-methylphenol	<0.736	U	20.0	12.68		ug/L		63	12 - 157
4-Aminobiphenyl	<0.297	U	20.0	9.107		ug/L		46	20 - 130
4-Bromophenyl phenyl ether	<0.167	U	20.0	10.61		ug/L		53	40 - 126
4-Chloro-3-methylphenol	<0.157	U	20.0	10.57		ug/L		53	40 - 119
4-Chloroaniline	<0.149	U	20.0	9.398		ug/L		47	39 - 111
4-Chlorophenyl phenyl ether	<0.232	U	20.0	10.32		ug/L		52	40 - 122
4-Nitroaniline	<0.247	U	20.0	10.89		ug/L		54	42 - 125
4-Nitroquinoline-1-oxide	<2.15	U	20.0	14.43		ug/L		72	70 - 130
7,12-Dimethylbenz(a)anthracene	<0.0610	U	20.0	12.66		ug/L		63	40 - 120
Acenaphthene	<0.208	U	20.0	10.23		ug/L		51	41 - 118
Acenaphthylene	<0.215	U	20.0	10.55		ug/L		53	41 - 116
Acetophenone	<0.225	U	20.0	10.15		ug/L		51	23 - 125
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	20.0	<4.00	U F1	ug/L		0	70 - 130
Aniline	<0.314	U	20.0	8.884		ug/L		44	31 - 120
Anthracene	<0.154	U	20.0	11.33		ug/L		57	39 - 127
Benzo[a]anthracene	<0.150	U	20.0	13.45		ug/L		67	40 - 129
Benzo[a]pyrene	<0.148	U	20.0	14.35		ug/L		72	36 - 141
Benzo[b]fluoranthene	<0.210	U	20.0	13.84		ug/L		69	34 - 139
Benzo[g,h,i]perylene	<0.143	U	20.0	14.70		ug/L		74	32 - 141
Benzo[k]fluoranthene	<0.166	U	20.0	13.40		ug/L		67	31 - 139
Benzyl alcohol	<4.50	U	20.0	11.20		ug/L		56	37 - 102
Bis(2-chloroethoxy)methane	<0.170	U	20.0	9.808		ug/L		49	36 - 113
Bis(2-chloroethyl)ether	<0.278	U	20.0	10.32		ug/L		52	38 - 111
Bis(2-ethylhexyl) phthalate	<0.225	U	20.0	13.32		ug/L		67	44 - 136
Butyl benzyl phthalate	<0.150	U	20.0	13.75		ug/L		69	44 - 133
Chrysene	<0.159	U	20.0	13.11		ug/L		66	41 - 124
Dibenz(a,h)anthracene	<0.148	U	20.0	15.51		ug/L		78	35 - 143
Dibenzofuran	<0.336	U	20.0	9.855		ug/L		49	41 - 119
Diethyl phthalate	<0.118	U	20.0	10.37		ug/L		52	41 - 125
Dimethyl phthalate	<0.143	U	20.0	10.49		ug/L		52	42 - 123
Di-n-butyl phthalate	<0.800	U	20.0	14.24		ug/L		71	41 - 133
Di-n-octyl phthalate	<0.169	U	20.0	15.29		ug/L		76	34 - 145
Diphenyl ether	<0.364	U	20.0	9.801		ug/L		49	
Ethyl methanesulfonate	<1.38	U F1	20.0	10.54	F1	ug/L		53	70 - 130
Fluoranthene	<0.148	U	20.0	14.00		ug/L		70	38 - 132

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61549-B-2-B MS

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluorene	<0.205	U	20.0	10.21		ug/L		51	41 - 121
Hexachlorobenzene	<0.126	U	20.0	9.992		ug/L		50	39 - 128
Hexachlorobutadiene	<0.252	U	20.0	10.35		ug/L		52	31 - 120
Hexachlorocyclopentadiene	<0.431	U	20.0	11.91		ug/L		60	15 - 117
Hexachloroethane	<0.140	U	20.0	10.00		ug/L		50	37 - 109
Hexachloropropene	<0.213	U	20.0	10.01		ug/L		50	
Indeno[1,2,3-cd]pyrene	<0.852	U	20.0	15.18		ug/L		76	35 - 141
Isophorone	<0.168	U	20.0	10.90		ug/L		54	40 - 115
Methyl methanesulfonate	<0.0610	U F1	20.0	9.413	F1	ug/L		47	70 - 130
Naphthalene	<0.423	U	20.0	9.995		ug/L		50	37 - 113
Nitrobenzene	<0.934	U	20.0	10.35		ug/L		52	37 - 114
N-Nitro-o-toluidine	<1.31	U	20.0	11.31		ug/L		57	35 - 130
N-Nitrosodiethylamine	<1.54	U F1	20.0	10.93	F1	ug/L		55	70 - 130
N-Nitrosodimethylamine	<0.126	U	20.0	8.681		ug/L		43	28 - 127
N-Nitrosodi-n-butylamine	<1.54	U	20.0	8.677		ug/L		43	34 - 122
N-Nitrosodi-n-propylamine	<0.161	U	20.0	10.93		ug/L		55	38 - 117
N-Nitrosodiphenylamine	<0.155	U	20.0	10.87		ug/L		54	40 - 127
N-Nitrosomethylethylamine	<0.199	U	20.0	11.10		ug/L		55	28 - 126
N-Nitrosomorpholine	<1.44	U F1	20.0	11.13	F1	ug/L		56	70 - 130
N-Nitrosopiperidine	<1.44	U	20.0	10.84		ug/L		54	39 - 115
N-Nitrosopyrrolidine	<1.38	U	20.0	10.59		ug/L		53	36 - 121
p-Dimethylamino azobenzene	<0.0579	U	20.0	11.88		ug/L		59	38 - 124
Pentachlorobenzene	<1.18	U	20.0	10.01		ug/L		50	40 - 123
Pentachloronitrobenzene	<1.27	U	20.0	11.40		ug/L		57	40 - 120
Pentachlorophenol	<0.441	U	20.0	12.81		ug/L		64	10 - 137
Phenacetin	<1.32	U	20.0	12.42		ug/L		62	20 - 130
Phenanthrene	<0.176	U	20.0	10.88		ug/L		54	39 - 126
Phenol	<0.202	U	20.0	6.276		ug/L		31	15 - 106
p-Phenylene diamine	<10.0	U *- F1	20.0	<10.0	U F1	ug/L		0	1 - 150
Pronamide	<1.39	U	20.0	13.34		ug/L		67	25 - 120
Pyrene	<0.159	U	20.0	12.11		ug/L		61	40 - 130
Pyridine	<0.725	U	20.0	3.628		ug/L		18	16 - 135
Safrole, Total	<0.183	U F1	20.0	10.33	F1	ug/L		52	70 - 130
Aramite Peak 2	<2.74	U	10.0	7.486		ug/L		75	
Isosafrole Peak 1	<2.46	U F1	3.20	<2.46	U F1	ug/L		0	70 - 130
Diallate Peak 2	<0.602	U F1	5.20	2.517	J F1	ug/L		48	70 - 130
Isosafrole Peak 2	<2.12	U F1	16.8	8.418	F1	ug/L		50	70 - 130
Diallate Peak 1	<0.675	U F1	14.8	7.947	J F1	ug/L		54	70 - 130
Aramite Peak 1	<0.670	U	10.0	7.726		ug/L		77	

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	65		31 - 132
2-Fluorobiphenyl	62		40 - 130
2-Fluorophenol (Surr)	41		21 - 114
Nitrobenzene-d5 (Surr)	59		37 - 130
Phenol-d5 (Surr)	33		16 - 117
p-Terphenyl-d14	84		20 - 141

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61549-B-2-C MSD

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	<0.428	U	20.0	9.258		ug/L		46	41 - 117	5	30
1,2,4,5-Tetrachlorobenzene	<0.672	U	20.0	8.980		ug/L		45	39 - 120	7	30
1,2,4-Trichlorobenzene	<0.680	U	20.0	9.413		ug/L		47	34 - 117	5	30
1,2-Dichlorobenzene	<0.296	U	20.0	9.128		ug/L		46	38 - 111	13	30
1,3,5-Trinitrobenzene	<1.43	U F1	20.0	16.42		ug/L		82	70 - 130	19	30
1,3-Dichlorobenzene	<0.350	U	20.0	9.159		ug/L		46	37 - 111	10	30
1,3-Dinitrobenzene	<0.112	U	20.0	11.99		ug/L		60	36 - 131	15	30
1,4-Dichlorobenzene	<0.428	U	20.0	9.125		ug/L		46	37 - 111	11	30
1,4-Naphthoquinone	<1.85	U F1	20.0	10.74	F1	ug/L		54	70 - 130	2	30
1-Naphthylamine	<0.232	U	20.0	9.111		ug/L		46	40 - 120	9	30
2,2'-oxybis[1-chloropropane]	<0.139	U	20.0	10.06		ug/L		50	32 - 110	11	30
2,3,4,6-Tetrachlorophenol	<0.174	U	20.0	13.95		ug/L		70	33 - 132	16	30
2,4,5-Trichlorophenol	<0.108	U	20.0	11.86		ug/L		59	39 - 125	3	30
2,4,6-Trichlorophenol	<0.135	U	20.0	11.11		ug/L		56	42 - 125	1	30
2,4-Dichlorophenol	<0.115	U	20.0	9.729		ug/L		49	38 - 120	5	30
2,4-Dimethylphenol	<0.148	U	20.0	11.77		ug/L		59	39 - 117	2	30
2,4-Dinitrophenol	<1.46	U	20.0	13.49		ug/L		67	13 - 152	17	30
2,4-Dinitrotoluene	<0.127	U	20.0	14.27		ug/L		71	41 - 128	16	30
2,6-Dichlorophenol	<0.126	U	20.0	9.484		ug/L		47	42 - 118	6	30
2,6-Dinitrotoluene	<0.199	U	20.0	12.00		ug/L		60	42 - 127	7	30
2-Acetylaminofluorene	<1.52	U F1	20.0	15.70		ug/L		78	70 - 130	14	30
2-Chloronaphthalene	<1.09	U	20.0	9.172		ug/L		46	40 - 118	3	30
2-Chlorophenol	<0.0135	U	20.0	9.137		ug/L		46	41 - 108	9	30
2-Methylnaphthalene	<0.480	U	20.0	10.10		ug/L		51	37 - 112	4	30
2-Methylphenol	<0.159	U	20.0	8.818		ug/L		44	36 - 125	11	30
2-Naphthylamine	<0.595	U F1	20.0	9.123		ug/L		46	40 - 120	15	30
2-Nitroaniline	<0.163	U	20.0	10.42		ug/L		52	34 - 126	5	30
2-Nitrophenol	<0.135	U	20.0	10.52		ug/L		53	38 - 125	5	30
2-Picoline	<0.215	U F2	20.0	5.204	F2	ug/L		26	11 - 107	34	30
2-Toluidine	<0.934	U F1	20.0	8.886	F1	ug/L		44	70 - 130	9	30
3 & 4 Methylphenol	<0.163	U	20.0	8.068		ug/L		40	35 - 116	8	30
3,3'-Dichlorobenzidine	<0.220	U	20.0	15.07		ug/L		75	29 - 141	22	30
3,3'-Dimethylbenzidine	<0.444	U F2 *- F1	20.0	3.657	J F2 F1	ug/L		18	70 - 130	77	30
3-Methylcholanthrene	<0.159	U	20.0	16.57		ug/L		83	20 - 130	14	30
3-Nitroaniline	<0.344	U	20.0	12.53		ug/L		63	42 - 123	15	30
4,6-Dinitro-2-methylphenol	<0.736	U	20.0	15.57		ug/L		78	12 - 157	20	30
4-Aminobiphenyl	<0.297	U	20.0	11.28		ug/L		56	20 - 130	21	30
4-Bromophenyl phenyl ether	<0.167	U	20.0	11.95		ug/L		60	40 - 126	12	30
4-Chloro-3-methylphenol	<0.157	U	20.0	10.95		ug/L		55	40 - 119	4	30
4-Chloroaniline	<0.149	U	20.0	8.827		ug/L		44	39 - 111	6	30
4-Chlorophenyl phenyl ether	<0.232	U	20.0	10.79		ug/L		54	40 - 122	4	30
4-Nitroaniline	<0.247	U	20.0	13.59		ug/L		68	42 - 125	22	30
4-Nitroquinoline-1-oxide	<2.15	U	20.0	16.86		ug/L		84	70 - 130	16	30
7,12-Dimethylbenz(a)anthracene	<0.0610	U	20.0	14.49		ug/L		72	40 - 120	13	30
Acenaphthene	<0.208	U	20.0	10.13		ug/L		51	41 - 118	1	30
Acenaphthylene	<0.215	U	20.0	10.30		ug/L		51	41 - 116	2	30
Acetophenone	<0.225	U	20.0	9.280		ug/L		46	23 - 125	9	30
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	20.0	<4.00	U F1	ug/L		0	70 - 130	NC	

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61549-B-2-C MSD

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aniline	<0.314	U	20.0	8.262		ug/L		41	31 - 120	7	30
Anthracene	<0.154	U	20.0	13.57		ug/L		68	39 - 127	18	30
Benzo[a]anthracene	<0.150	U	20.0	15.63		ug/L		78	40 - 129	15	30
Benzo[a]pyrene	<0.148	U	20.0	16.53		ug/L		83	36 - 141	14	30
Benzo[b]fluoranthene	<0.210	U	20.0	15.54		ug/L		78	34 - 139	12	30
Benzo[g,h,i]perylene	<0.143	U	20.0	17.30		ug/L		86	32 - 141	16	30
Benzo[k]fluoranthene	<0.166	U	20.0	15.37		ug/L		77	31 - 139	14	30
Benzyl alcohol	<4.50	U	20.0	9.770		ug/L		49	37 - 102	14	30
Bis(2-chloroethoxy)methane	<0.170	U	20.0	9.083		ug/L		45	36 - 113	8	30
Bis(2-chloroethyl)ether	<0.278	U	20.0	9.740		ug/L		49	38 - 111	6	30
Bis(2-ethylhexyl) phthalate	<0.225	U	20.0	15.54		ug/L		78	44 - 136	15	30
Butyl benzyl phthalate	<0.150	U	20.0	16.33		ug/L		82	44 - 133	17	30
Chrysene	<0.159	U	20.0	15.31		ug/L		77	41 - 124	16	30
Dibenz(a,h)anthracene	<0.148	U	20.0	18.02		ug/L		90	35 - 143	15	30
Dibenzofuran	<0.336	U	20.0	10.06		ug/L		50	41 - 119	2	30
Diethyl phthalate	<0.118	U	20.0	12.67		ug/L		63	41 - 125	20	30
Dimethyl phthalate	<0.143	U	20.0	11.33		ug/L		57	42 - 123	8	30
Di-n-butyl phthalate	<0.800	U	20.0	17.34		ug/L		87	41 - 133	20	30
Di-n-octyl phthalate	<0.169	U	20.0	16.99		ug/L		85	34 - 145	11	30
Diphenyl ether	<0.364	U	20.0	9.446		ug/L		47		4	30
Ethyl methanesulfonate	<1.38	U F1	20.0	9.614	F1	ug/L		48	70 - 130	9	30
Fluoranthene	<0.148	U	20.0	16.55		ug/L		83	38 - 132	17	30
Fluorene	<0.205	U	20.0	10.82		ug/L		54	41 - 121	6	30
Hexachlorobenzene	<0.126	U	20.0	11.95		ug/L		60	39 - 128	18	30
Hexachlorobutadiene	<0.252	U	20.0	9.555		ug/L		48	31 - 120	8	30
Hexachlorocyclopentadiene	<0.431	U	20.0	10.96		ug/L		55	15 - 117	8	30
Hexachloroethane	<0.140	U	20.0	9.337		ug/L		47	37 - 109	7	30
Hexachloropropene	<0.213	U	20.0	9.497		ug/L		47		5	30
Indeno[1,2,3-cd]pyrene	<0.852	U	20.0	17.51		ug/L		88	35 - 141	14	30
Isophorone	<0.168	U	20.0	10.17		ug/L		51	40 - 115	7	30
Methyl methanesulfonate	<0.0610	U F1	20.0	8.364	F1	ug/L		42	70 - 130	12	30
Naphthalene	<0.423	U	20.0	9.413		ug/L		47	37 - 113	6	30
Nitrobenzene	<0.934	U	20.0	9.656		ug/L		48	37 - 114	7	30
N-Nitro-o-toluidine	<1.31	U	20.0	13.60		ug/L		68	35 - 130	18	30
N-Nitrosodiethylamine	<1.54	U F1	20.0	9.839	F1	ug/L		49	70 - 130	11	30
N-Nitrosodimethylamine	<0.126	U	20.0	8.024		ug/L		40	28 - 127	8	30
N-Nitrosodi-n-butylamine	<1.54	U	20.0	8.671		ug/L		43	34 - 122	0	30
N-Nitrosodi-n-propylamine	<0.161	U	20.0	10.17		ug/L		51	38 - 117	7	30
N-Nitrosodiphenylamine	<0.155	U	20.0	12.87		ug/L		64	40 - 127	17	30
N-Nitrosomethylethylamine	<0.199	U	20.0	9.935		ug/L		50	28 - 126	11	30
N-Nitrosomorpholine	<1.44	U F1	20.0	10.38	F1	ug/L		52	70 - 130	7	30
N-Nitrosopiperidine	<1.44	U	20.0	9.886		ug/L		49	39 - 115	9	30
N-Nitrosopyrrolidine	<1.38	U	20.0	9.429		ug/L		47	36 - 121	12	30
p-Dimethylamino azobenzene	<0.0579	U	20.0	13.79		ug/L		69	38 - 124	15	30
Pentachlorobenzene	<1.18	U	20.0	9.621		ug/L		48	40 - 123	4	30
Pentachloronitrobenzene	<1.27	U	20.0	13.96		ug/L		70	40 - 120	20	30
Pentachlorophenol	<0.441	U	20.0	15.63		ug/L		78	10 - 137	20	30
Phenacetin	<1.32	U	20.0	14.60		ug/L		73	20 - 130	16	30
Phenanthrene	<0.176	U	20.0	12.97		ug/L		65	39 - 126	18	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61549-B-2-C MSD

Matrix: Water

Analysis Batch: 131659

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 131552

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol	<0.202	U	20.0	6.684		ug/L		33	15 - 106	6	30
p-Phenylene diamine	<10.0	U *- F1	20.0	<10.0	U F1	ug/L		0	1 - 150	NC	50
Pronamide	<1.39	U	20.0	16.87		ug/L		84	25 - 120	23	30
Pyrene	<0.159	U	20.0	14.11		ug/L		71	40 - 130	15	30
Pyridine	<0.725	U	20.0	4.720		ug/L		24	16 - 135	26	30
Safrole, Total	<0.183	U F1	20.0	9.617	F1	ug/L		48	70 - 130	7	30
Aramite Peak 2	<2.74	U	10.0	8.913		ug/L		89		17	30
Isosafrole Peak 1	<2.46	U F1	3.20	<2.46	U F1	ug/L		0	70 - 130	NC	30
Diallate Peak 2	<0.602	U F1	5.20	3.246	J F1	ug/L		62	70 - 130	25	30
Isosafrole Peak 2	<2.12	U F1	16.8	8.125	F1	ug/L		48	70 - 130	4	30
Diallate Peak 1	<0.675	U F1	14.8	9.639	F1	ug/L		65	70 - 130	19	30
Aramite Peak 1	<0.670	U	10.0	8.997		ug/L		90		15	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	76		31 - 132
2-Fluorobiphenyl	72		40 - 130
2-Fluorophenol (Surr)	40		21 - 114
Nitrobenzene-d5 (Surr)	58		37 - 130
Phenol-d5 (Surr)	31		16 - 117
p-Terphenyl-d14	96		20 - 141

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

GC/MS VOA

Analysis Batch: 131293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61632-1	MW-47	Total/NA	Water	8260D	
860-61632-3	TB-07 (111323)	Total/NA	Water	8260D	
MB 860-131293/9	Method Blank	Total/NA	Water	8260D	
LCS 860-131293/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-131293/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61298-A-1 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 131391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61632-2	MW-43	Total/NA	Water	8260D	
MB 860-131391/9	Method Blank	Total/NA	Water	8260D	
LCS 860-131391/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-131391/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61115-C-1 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 131519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61632-1 - RA	MW-47	Total/NA	Water	8260D	
MB 860-131519/10	Method Blank	Total/NA	Water	8260D	
LCS 860-131519/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-131519/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61632-1 MS	MW-47	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 131401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61632-1	MW-47	Total/NA	Water	3511	
860-61632-2	MW-43	Total/NA	Water	3511	
MB 860-131401/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-131401/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-131401/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Prep Batch: 131552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61632-1	MW-47	Total/NA	Water	3510C	
860-61632-2	MW-43	Total/NA	Water	3510C	
MB 860-131552/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-131552/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-131552/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
860-61549-B-2-B MS	Matrix Spike	Total/NA	Water	3510C	
860-61549-B-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 131659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-131552/1-A	Method Blank	Total/NA	Water	8270E LL	131552
860-61549-B-2-B MS	Matrix Spike	Total/NA	Water	8270E LL	131552
860-61549-B-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270E LL	131552

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

GC/MS Semi VOA

Analysis Batch: 131720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61632-1	MW-47	Total/NA	Water	8270E LL	131552
860-61632-2	MW-43	Total/NA	Water	8270E LL	131552

Analysis Batch: 131841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-131552/2-A	Lab Control Sample	Total/NA	Water	8270E LL	131552
LCSD 860-131552/3-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	131552

Analysis Batch: 131865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61632-1	MW-47	Total/NA	Water	8270E	131401
860-61632-2	MW-43	Total/NA	Water	8270E	131401
MB 860-131401/1-A	Method Blank	Total/NA	Water	8270E	131401
LCS 860-131401/2-A	Lab Control Sample	Total/NA	Water	8270E	131401
LCSD 860-131401/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	131401

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Client Sample ID: MW-47

Date Collected: 11/13/23 10:51

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61632-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2	5 mL	5 mL	131293	11/16/23 14:36	NA	EET HOU
Total/NA	Analysis	8260D	RA	2	5 mL	5 mL	131519	11/17/23 10:57	NA	EET HOU
Total/NA	Prep	3511			30.7 mL	2 mL	131401	11/16/23 11:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131865	11/20/23 19:50	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131552	11/17/23 08:38	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131720	11/18/23 16:29	T1S	EET HOU

Client Sample ID: MW-43

Date Collected: 11/13/23 10:55

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61632-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2	5 mL	5 mL	131391	11/16/23 20:52	A1S	EET HOU
Total/NA	Prep	3511			29.8 mL	2 mL	131401	11/16/23 11:57	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131865	11/20/23 20:19	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	131552	11/17/23 08:38	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	131720	11/18/23 16:50	T1S	EET HOU

Client Sample ID: TB-07 (111323)

Date Collected: 11/13/23 00:00

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61632-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131293	11/16/23 11:11	NA	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61632-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-61632-1	MW-47	Water	11/13/23 10:51	11/15/23 09:50
860-61632-2	MW-43	Water	11/13/23 10:55	11/15/23 09:50
860-61632-3	TB-07 (111323)	Water	11/13/23 00:00	11/15/23 09:50

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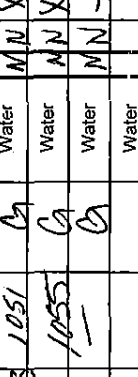
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Client Information Client Contact: <u>Mr Antonio Cardoso</u> Company: <u>ARCADIS US Inc</u> Address: <u>4300 West Cypress Street Suite 450</u> City: <u>Tampa</u> State, Zip: <u>FL 33607</u> Phone: _____ Email: <u>antonio.cardoso@arcadis.com</u> Project Name: <u>Hercules Hattiesburg MS</u> Site: _____		Analysis Requested Due Date Requested: _____ TAT Requested (days): _____ Compliance Project: ☐ Yes ☒ No PO #: _____ WO #: _____ Project #: <u>86006085</u> SSOW#: _____		Carrier Tracking Info(s) Carrier: <u>K. Montgomerie / A. Guevara</u> E-Mail: <u>Sachin.Kudchadkar@eteurofinus.com</u> State of Origin: _____ Lab PM: _____ COC No: <u>860-23558-8445.1</u> Page: <u>1 of 1</u> Job #: _____																							
Sample Identification <u>MW-47</u> <u>MW-43</u> <u>TB-07 (11/3/23)</u>		Sample Date <u>11/13/23</u> <u>"</u> <u>"</u>		Sample Time <u>1051</u> <u>1055</u> <u>"</u>		Sample Type (C=comp, G=grab) <u>G</u> <u>G</u> <u>G</u>		Matrix (Water, Sludge, Other) <u>Water</u> <u>Water</u> <u>Water</u>		Preservation Code: <u>1051</u> <u>1055</u> <u>"</u>		Field Filtered Sample (Yes or No) ☒ Yes ☒ No ☒ Yes ☒ No ☒ Yes ☒ No		Perform MS/MSD (Yes or No) ☒ Yes ☒ No ☒ Yes ☒ No ☒ Yes ☒ No		8270E SIM ID D5 1,4 Dioxane ☒ Yes ☒ No ☒ Yes ☒ No ☒ Yes ☒ No		8270E TL Appendix 9 SVOCs ☒ Yes ☒ No ☒ Yes ☒ No ☒ Yes ☒ No		8260D Appendix 9 VOCs ☒ Yes ☒ No ☒ Yes ☒ No ☒ Yes ☒ No		860-61632 Chain of Custody 		Total Number of Containers <u>7</u> <u>7</u> <u>0</u>		Special Instructions/Note: 	
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested I II III IV Other (specify) _____		Empty Kit Relinquished by: Relinquished by: <u>Fedex</u> Date/Time: <u>11/14/23 1520</u> Relinquished by: <u>Fedex</u> Date/Time: <u>11/15/23 950</u> Relinquished by: _____ Date/Time: _____		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements: _____		Temp: <u>0.3</u> IR ID: HOU-369 C/F <u>-0.0</u> Corrected Temp: <u>0.3</u>		Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E MeOH Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Triama Z other (specify) _____ Other _____																			
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No. _____		Other Remarks: Cooler Temperature(s) °C and Other Remarks: _____																							

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-61632-1

Login Number: 61632

List Source: Eurofins Houston

List Number: 1

Creator: Rubio, Yuri

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

ANALYTICAL REPORT

PREPARED FOR

Attn: Timothy Hassett
Ashland LLC
Ashland Hercules Research Center
500 Hercules Rd Bldg 8145
Wilmington, Delaware 19808

Generated 11/29/2023 10:06:59 PM

JOB DESCRIPTION

Hercules Hattiesburg, MS

JOB NUMBER

860-61633-1

Eurofins Houston

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Definitions/Glossary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Job ID: 860-61633-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-61633-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/15/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C

GC/MS VOA

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-73 (860-61633-5), MW-50 (860-61633-7) and DUPE-04 (860-61633-8). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270E_LL: The surrogate recovery for the laboratory control sample duplicate (LCSD) associated with preparation batch 860-132037 and analytical batch 860-132264 was outside the upper control limits.

Method 8270E_LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-132037 and analytical batch 860-132264 recovered outside control limits for the following analyte(s): 2-Picoline, 3,3'-Dimethylbenzidine, Aniline, p-Phenylene diamine and Pyridine. 2-Picoline, 3,3'-Dimethylbenzidine, Aniline, p-Phenylene diamine and Pyridine have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method 8270E_LL: The following samples required a dilution due to the nature of the sample matrix: MW-73 (860-61633-5), MW-50 (860-61633-7) and DUPE-04 (860-61633-8). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E_LL: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-73 (860-61633-5), MW-52S (860-61633-6), MW-50 (860-61633-7), DUPE-04 (860-61633-8) and MW-52D (860-61633-10). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: The following sample was diluted due to the nature of the sample matrix: MW-50 (860-61633-7). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW-52S (860-61633-6). These results have been reported and qualified.

Method 8270E_LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-50 (860-61633-7). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: The following sample required a dilution due to the nature of the sample matrix: MW-50 (860-61633-7). Because of

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Job ID: 860-61633-1 (Continued)

Laboratory: Eurofins Houston (Continued)

this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E_QQQ: The surrogate recovery for the laboratory control sample associated with preparation batch 860-131915 and analytical batch 860-131978 was outside the upper control limit.

Method 8270E_QQQ: Internal standard (ISTD) response for 1,4-Dioxane for the following samples in analytical batch 860-131978 was outside acceptance criteria: MW-73 (860-61633-5), MW-52S (860-61633-6), MW-50 (860-61633-7) and DUPE-04 (860-61633-8). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: TB-09 (111423)

Lab Sample ID: 860-61633-1

No Detections.

Client Sample ID: MW-75

Lab Sample ID: 860-61633-2

No Detections.

Client Sample ID: MW-54

Lab Sample ID: 860-61633-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diphenyl ether	0.968	J	8.00	0.364	ug/L	1		8270E LL	Total/NA

Client Sample ID: RB-04

Lab Sample ID: 860-61633-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diphenyl ether	0.711	J	8.00	0.364	ug/L	1		8270E LL	Total/NA

Client Sample ID: MW-73

Lab Sample ID: 860-61633-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	40700		500	230	ug/L	500		8260D	Total/NA
Toluene	955		500	238	ug/L	500		8260D	Total/NA
2-Methylphenol	5.84	J	20.0	1.59	ug/L	10		8270E LL	Total/NA
3 & 4 Methylphenol	12.2	J	20.0	1.63	ug/L	10		8270E LL	Total/NA
Naphthalene	7.82	J	20.0	4.23	ug/L	10		8270E LL	Total/NA
Phenol	91.9		40.0	2.02	ug/L	10		8270E LL	Total/NA
1,1'-Biphenyl - DL	1560		400	85.7	ug/L	200		8270E LL	Total/NA
Diphenyl ether - DL	5330		1600	72.7	ug/L	200		8270E LL	Total/NA
1,4-Dioxane	3.49		0.656	0.172	ug/L	1		8270E	Total/NA

Client Sample ID: MW-52S

Lab Sample ID: 860-61633-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,2,4-Trimethylpentane	0.722	J	5.00	0.500	ug/L	1		8260D	Total/NA
Benzene	22.2		1.00	0.460	ug/L	1		8260D	Total/NA
Cumene (isopropylbenzene)	6.30		1.00	0.592	ug/L	1		8260D	Total/NA
Cyclohexane	3.60	J	5.00	1.29	ug/L	1		8260D	Total/NA
Ethylbenzene	0.540	J	1.00	0.385	ug/L	1		8260D	Total/NA
Acenaphthene	1.11	J	2.00	0.208	ug/L	1		8270E LL	Total/NA
Fluorene	0.371	J	2.00	0.205	ug/L	1		8270E LL	Total/NA
Phenol	6.06		4.00	0.202	ug/L	1		8270E LL	Total/NA
Diphenyl ether - DL	1200		160	7.27	ug/L	20		8270E LL	Total/NA
1,4-Dioxane	0.911		0.676	0.177	ug/L	1		8270E	Total/NA

Client Sample ID: MW-50

Lab Sample ID: 860-61633-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	133	J	1000	30.7	ug/L	10		8260D	Total/NA
Benzene	1200		10.0	4.60	ug/L	10		8260D	Total/NA
Tetrahydrofuran	1140		100	18.3	ug/L	10		8260D	Total/NA
Toluene	92.5		10.0	4.75	ug/L	10		8260D	Total/NA
3 & 4 Methylphenol	1.93	J	10.0	0.814	ug/L	5		8270E LL	Total/NA
Dibenzofuran	3.53	J	10.0	1.68	ug/L	5		8270E LL	Total/NA
Naphthalene	13.0		10.0	2.11	ug/L	5		8270E LL	Total/NA
Phenol	3.04	J	20.0	1.01	ug/L	5		8270E LL	Total/NA
1,1'-Biphenyl - DL	2300		100	21.4	ug/L	50		8270E LL	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-50 (Continued)

Lab Sample ID: 860-61633-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diphenyl ether - DL2	7420		4000	182	ug/L	500		8270E LL	Total/NA
1,4-Dioxane	2.88		0.673	0.177	ug/L	1		8270E	Total/NA

Client Sample ID: DUPE-04

Lab Sample ID: 860-61633-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	125	J	1000	30.7	ug/L	10		8260D	Total/NA
Benzene	1140		10.0	4.60	ug/L	10		8260D	Total/NA
Tetrahydrofuran	1080		100	18.3	ug/L	10		8260D	Total/NA
Toluene	89.4		10.0	4.75	ug/L	10		8260D	Total/NA
Naphthalene	9.79	J	20.0	4.23	ug/L	10		8270E LL	Total/NA
1,1'-Biphenyl - DL	1890		400	85.7	ug/L	200		8270E LL	Total/NA
Diphenyl ether - DL	6490		1600	72.7	ug/L	200		8270E LL	Total/NA
1,4-Dioxane	2.71		0.692	0.182	ug/L	1		8270E	Total/NA

Client Sample ID: FB-04

Lab Sample ID: 860-61633-9

No Detections.

Client Sample ID: MW-52D

Lab Sample ID: 860-61633-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,2,4-Trimethylpentane	0.642	J	5.00	0.500	ug/L	1		8260D	Total/NA
Benzene	0.475	J	1.00	0.460	ug/L	1		8260D	Total/NA
Cumene (isopropylbenzene)	6.16		1.00	0.592	ug/L	1		8260D	Total/NA
Cyclohexane	3.31	J	5.00	1.29	ug/L	1		8260D	Total/NA
Acenaphthene	0.857	J	2.00	0.208	ug/L	1		8270E LL	Total/NA
Fluorene	0.427	J	2.00	0.205	ug/L	1		8270E LL	Total/NA
Phenol	4.76		4.00	0.202	ug/L	1		8270E LL	Total/NA
Diphenyl ether - DL	1010		160	7.27	ug/L	20		8270E LL	Total/NA
1,4-Dioxane	1.23		0.719	0.189	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: TB-09 (111423)

Lab Sample ID: 860-61633-1

Date Collected: 11/14/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 18:08	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 18:08	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 18:08	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 18:08	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 18:08	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 18:08	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 18:08	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 18:08	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 18:08	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 18:08	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 18:08	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 18:08	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 18:08	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 18:08	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 18:08	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 18:08	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 18:08	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/16/23 18:08	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 18:08	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 18:08	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 18:08	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 18:08	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 18:08	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 18:08	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 18:08	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 18:08	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 18:08	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 18:08	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 18:08	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 18:08	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 18:08	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 18:08	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 18:08	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 18:08	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 18:08	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 18:08	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 18:08	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 18:08	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 18:08	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 18:08	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 18:08	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 18:08	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 18:08	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 18:08	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 18:08	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 18:08	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 18:08	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/16/23 18:08	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: TB-09 (111423)

Lab Sample ID: 860-61633-1

Date Collected: 11/14/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 18:08	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 18:08	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 18:08	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 18:08	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 18:08	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 18:08	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 18:08	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 18:08	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 18:08	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 18:08	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 18:08	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 18:08	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 18:08	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 18:08	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 18:08	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 18:08	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 18:08	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 18:08	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 18:08	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		11/16/23 18:08	1
4-Bromofluorobenzene (Surr)	100		74 - 124		11/16/23 18:08	1
Dibromofluoromethane (Surr)	101		75 - 131		11/16/23 18:08	1
Toluene-d8 (Surr)	98		80 - 120		11/16/23 18:08	1

Client Sample ID: MW-75

Lab Sample ID: 860-61633-2

Date Collected: 11/14/23 08:18

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 22:14	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 22:14	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 22:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 22:14	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 22:14	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 22:14	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 22:14	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 22:14	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 22:14	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 22:14	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 22:14	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 22:14	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 22:14	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 22:14	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 22:14	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 22:14	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 22:14	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-75

Lab Sample ID: 860-61633-2

Date Collected: 11/14/23 08:18

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 22:14	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/16/23 22:14	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 22:14	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 22:14	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 22:14	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 22:14	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 22:14	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 22:14	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 22:14	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 22:14	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 22:14	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 22:14	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 22:14	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 22:14	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 22:14	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 22:14	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 22:14	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 22:14	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 22:14	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 22:14	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 22:14	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 22:14	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 22:14	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 22:14	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 22:14	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 22:14	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 22:14	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 22:14	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 22:14	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 22:14	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 22:14	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/16/23 22:14	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 22:14	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 22:14	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 22:14	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 22:14	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 22:14	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 22:14	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 22:14	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 22:14	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 22:14	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 22:14	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 22:14	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 22:14	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 22:14	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 22:14	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 22:14	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 22:14	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 22:14	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-75

Lab Sample ID: 860-61633-2

Date Collected: 11/14/23 08:18

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 22:14	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 22:14	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 22:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144					11/16/23 22:14	1
4-Bromofluorobenzene (Surr)	99		74 - 124					11/16/23 22:14	1
Dibromofluoromethane (Surr)	103		75 - 131					11/16/23 22:14	1
Toluene-d8 (Surr)	97		80 - 120					11/16/23 22:14	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 00:00	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/21/23 07:40	11/23/23 00:00	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/21/23 07:40	11/23/23 00:00	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/21/23 07:40	11/23/23 00:00	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/21/23 07:40	11/23/23 00:00	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/21/23 07:40	11/23/23 00:00	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/21/23 07:40	11/23/23 00:00	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 00:00	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/21/23 07:40	11/23/23 00:00	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 00:00	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/21/23 07:40	11/23/23 00:00	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/21/23 07:40	11/23/23 00:00	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/21/23 07:40	11/23/23 00:00	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 00:00	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/21/23 07:40	11/23/23 00:00	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 00:00	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/21/23 07:40	11/23/23 00:00	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/21/23 07:40	11/23/23 00:00	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 00:00	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 00:00	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/21/23 07:40	11/23/23 00:00	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/21/23 07:40	11/23/23 00:00	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/21/23 07:40	11/23/23 00:00	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/21/23 07:40	11/23/23 00:00	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 00:00	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/21/23 07:40	11/23/23 00:00	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/21/23 07:40	11/23/23 00:00	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 00:00	1
2-Picoline	<0.215	U *- *1	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 00:00	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/21/23 07:40	11/23/23 00:00	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/21/23 07:40	11/23/23 00:00	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/21/23 07:40	11/23/23 00:00	1
3,3'-Dimethylbenzidine	<0.444	U *-	8.00	0.444	ug/L		11/21/23 07:40	11/23/23 00:00	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/21/23 07:40	11/23/23 00:00	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/21/23 07:40	11/23/23 00:00	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/21/23 07:40	11/23/23 00:00	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/21/23 07:40	11/23/23 00:00	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/21/23 07:40	11/23/23 00:00	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-75

Lab Sample ID: 860-61633-2

Date Collected: 11/14/23 08:18

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/21/23 07:40	11/23/23 00:00	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/21/23 07:40	11/23/23 00:00	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 00:00	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/21/23 07:40	11/23/23 00:00	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/21/23 07:40	11/23/23 00:00	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/21/23 07:40	11/23/23 00:00	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/21/23 07:40	11/23/23 00:00	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 00:00	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/21/23 07:40	11/23/23 00:00	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/21/23 07:40	11/23/23 00:00	1
Aniline	<0.314	U *	4.00	0.314	ug/L		11/21/23 07:40	11/23/23 00:00	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/21/23 07:40	11/23/23 00:00	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 00:00	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 00:00	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 00:00	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/21/23 07:40	11/23/23 00:00	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 00:00	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/21/23 07:40	11/23/23 00:00	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/21/23 07:40	11/23/23 00:00	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/21/23 07:40	11/23/23 00:00	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/21/23 07:40	11/23/23 00:00	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/21/23 07:40	11/23/23 00:00	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 00:00	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 00:00	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 00:00	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 00:00	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/21/23 07:40	11/23/23 00:00	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/21/23 07:40	11/23/23 00:00	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/21/23 07:40	11/23/23 00:00	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 00:00	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/21/23 07:40	11/23/23 00:00	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/21/23 07:40	11/23/23 00:00	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/21/23 07:40	11/23/23 00:00	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/21/23 07:40	11/23/23 00:00	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/21/23 07:40	11/23/23 00:00	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 00:00	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/21/23 07:40	11/23/23 00:00	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/21/23 07:40	11/23/23 00:00	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 00:00	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/21/23 07:40	11/23/23 00:00	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 00:00	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/21/23 07:40	11/23/23 00:00	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/21/23 07:40	11/23/23 00:00	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/21/23 07:40	11/23/23 00:00	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/21/23 07:40	11/23/23 00:00	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/21/23 07:40	11/23/23 00:00	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/21/23 07:40	11/23/23 00:00	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 00:00	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/21/23 07:40	11/23/23 00:00	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-75

Lab Sample ID: 860-61633-2

Date Collected: 11/14/23 08:18

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/21/23 07:40	11/23/23 00:00	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/21/23 07:40	11/23/23 00:00	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/21/23 07:40	11/23/23 00:00	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/21/23 07:40	11/23/23 00:00	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/21/23 07:40	11/23/23 00:00	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/21/23 07:40	11/23/23 00:00	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 00:00	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/21/23 07:40	11/23/23 00:00	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/21/23 07:40	11/23/23 00:00	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/21/23 07:40	11/23/23 00:00	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 00:00	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 00:00	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 00:00	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 00:00	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 00:00	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 00:00	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/21/23 07:40	11/23/23 00:00	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/21/23 07:40	11/23/23 00:00	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/21/23 07:40	11/23/23 00:00	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/21/23 07:40	11/23/23 00:00	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/21/23 07:40	11/23/23 00:00	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/21/23 07:40	11/23/23 00:00	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/21/23 07:40	11/23/23 00:00	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/21/23 07:40	11/23/23 00:00	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/21/23 07:40	11/23/23 00:00	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 00:00	1
Pyridine	<0.725	U * - *1	2.00	0.725	ug/L		11/21/23 07:40	11/23/23 00:00	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/21/23 07:40	11/23/23 00:00	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/21/23 07:40	11/23/23 00:00	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/21/23 07:40	11/23/23 00:00	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/21/23 07:40	11/23/23 00:00	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 00:00	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 00:00	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/21/23 07:40	11/23/23 00:00	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/21/23 07:40	11/23/23 00:00	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 00:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	58		31 - 132	11/21/23 07:40	11/23/23 00:00	1
2-Fluorobiphenyl	60		40 - 130	11/21/23 07:40	11/23/23 00:00	1
2-Fluorophenol (Surr)	41		21 - 114	11/21/23 07:40	11/23/23 00:00	1
Nitrobenzene-d5 (Surr)	58		37 - 130	11/21/23 07:40	11/23/23 00:00	1
Phenol-d5 (Surr)	25		16 - 117	11/21/23 07:40	11/23/23 00:00	1
p-Terphenyl-d14	85		20 - 141	11/21/23 07:40	11/23/23 00:00	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.172	U	0.654	0.172	ug/L		11/20/23 12:55	11/21/23 06:11	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-75

Date Collected: 11/14/23 08:18

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61633-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	66		37 - 133	11/20/23 12:55	11/21/23 06:11	1

Client Sample ID: MW-54

Date Collected: 11/14/23 08:30

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61633-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/17/23 00:38	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/17/23 00:38	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/17/23 00:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/17/23 00:38	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/17/23 00:38	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/17/23 00:38	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/17/23 00:38	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/17/23 00:38	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/17/23 00:38	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/17/23 00:38	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/17/23 00:38	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/17/23 00:38	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/17/23 00:38	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/17/23 00:38	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/17/23 00:38	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/17/23 00:38	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/17/23 00:38	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/17/23 00:38	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/17/23 00:38	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/17/23 00:38	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/17/23 00:38	1
Acetone	<3.07	U	100	3.07	ug/L			11/17/23 00:38	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/17/23 00:38	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/17/23 00:38	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/17/23 00:38	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/17/23 00:38	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/17/23 00:38	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/17/23 00:38	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/17/23 00:38	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/17/23 00:38	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/17/23 00:38	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/17/23 00:38	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/17/23 00:38	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/17/23 00:38	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/17/23 00:38	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/17/23 00:38	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/17/23 00:38	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/17/23 00:38	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/17/23 00:38	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/17/23 00:38	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/17/23 00:38	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/17/23 00:38	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-54

Lab Sample ID: 860-61633-3

Date Collected: 11/14/23 08:30

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/17/23 00:38	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/17/23 00:38	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/17/23 00:38	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/17/23 00:38	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/17/23 00:38	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/17/23 00:38	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/17/23 00:38	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/17/23 00:38	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/17/23 00:38	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/17/23 00:38	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/17/23 00:38	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/17/23 00:38	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/17/23 00:38	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/17/23 00:38	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/17/23 00:38	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/17/23 00:38	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/17/23 00:38	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/17/23 00:38	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/17/23 00:38	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/17/23 00:38	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/17/23 00:38	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/17/23 00:38	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/17/23 00:38	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/17/23 00:38	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/17/23 00:38	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/17/23 00:38	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/17/23 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		11/17/23 00:38	1
4-Bromofluorobenzene (Surr)	100		74 - 124		11/17/23 00:38	1
Dibromofluoromethane (Surr)	101		75 - 131		11/17/23 00:38	1
Toluene-d8 (Surr)	98		80 - 120		11/17/23 00:38	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 00:21	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/21/23 07:40	11/23/23 00:21	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/21/23 07:40	11/23/23 00:21	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/21/23 07:40	11/23/23 00:21	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/21/23 07:40	11/23/23 00:21	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/21/23 07:40	11/23/23 00:21	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/21/23 07:40	11/23/23 00:21	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 00:21	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/21/23 07:40	11/23/23 00:21	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 00:21	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/21/23 07:40	11/23/23 00:21	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/21/23 07:40	11/23/23 00:21	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/21/23 07:40	11/23/23 00:21	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 00:21	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-54

Lab Sample ID: 860-61633-3

Date Collected: 11/14/23 08:30

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/21/23 07:40	11/23/23 00:21	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 00:21	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/21/23 07:40	11/23/23 00:21	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/21/23 07:40	11/23/23 00:21	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 00:21	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 00:21	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/21/23 07:40	11/23/23 00:21	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/21/23 07:40	11/23/23 00:21	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/21/23 07:40	11/23/23 00:21	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/21/23 07:40	11/23/23 00:21	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 00:21	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/21/23 07:40	11/23/23 00:21	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/21/23 07:40	11/23/23 00:21	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 00:21	1
2-Picoline	<0.215	U *- *1	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 00:21	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/21/23 07:40	11/23/23 00:21	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/21/23 07:40	11/23/23 00:21	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/21/23 07:40	11/23/23 00:21	1
3,3'-Dimethylbenzidine	<0.444	U *-	8.00	0.444	ug/L		11/21/23 07:40	11/23/23 00:21	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/21/23 07:40	11/23/23 00:21	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/21/23 07:40	11/23/23 00:21	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/21/23 07:40	11/23/23 00:21	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/21/23 07:40	11/23/23 00:21	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/21/23 07:40	11/23/23 00:21	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/21/23 07:40	11/23/23 00:21	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/21/23 07:40	11/23/23 00:21	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 00:21	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/21/23 07:40	11/23/23 00:21	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/21/23 07:40	11/23/23 00:21	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/21/23 07:40	11/23/23 00:21	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/21/23 07:40	11/23/23 00:21	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 00:21	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/21/23 07:40	11/23/23 00:21	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/21/23 07:40	11/23/23 00:21	1
Aniline	<0.314	U *-	4.00	0.314	ug/L		11/21/23 07:40	11/23/23 00:21	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/21/23 07:40	11/23/23 00:21	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 00:21	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 00:21	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 00:21	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/21/23 07:40	11/23/23 00:21	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 00:21	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/21/23 07:40	11/23/23 00:21	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/21/23 07:40	11/23/23 00:21	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/21/23 07:40	11/23/23 00:21	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/21/23 07:40	11/23/23 00:21	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/21/23 07:40	11/23/23 00:21	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 00:21	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 00:21	1
Diallylate	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 00:21	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-54

Lab Sample ID: 860-61633-3

Date Collected: 11/14/23 08:30

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 00:21	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/21/23 07:40	11/23/23 00:21	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/21/23 07:40	11/23/23 00:21	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/21/23 07:40	11/23/23 00:21	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 00:21	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/21/23 07:40	11/23/23 00:21	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/21/23 07:40	11/23/23 00:21	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/21/23 07:40	11/23/23 00:21	1
Diphenyl ether	0.968	J	8.00	0.364	ug/L		11/21/23 07:40	11/23/23 00:21	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/21/23 07:40	11/23/23 00:21	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 00:21	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/21/23 07:40	11/23/23 00:21	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/21/23 07:40	11/23/23 00:21	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 00:21	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/21/23 07:40	11/23/23 00:21	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 00:21	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/21/23 07:40	11/23/23 00:21	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/21/23 07:40	11/23/23 00:21	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/21/23 07:40	11/23/23 00:21	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/21/23 07:40	11/23/23 00:21	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/21/23 07:40	11/23/23 00:21	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/21/23 07:40	11/23/23 00:21	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 00:21	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/21/23 07:40	11/23/23 00:21	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/21/23 07:40	11/23/23 00:21	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/21/23 07:40	11/23/23 00:21	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/21/23 07:40	11/23/23 00:21	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/21/23 07:40	11/23/23 00:21	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/21/23 07:40	11/23/23 00:21	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/21/23 07:40	11/23/23 00:21	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 00:21	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/21/23 07:40	11/23/23 00:21	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/21/23 07:40	11/23/23 00:21	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/21/23 07:40	11/23/23 00:21	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 00:21	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 00:21	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 00:21	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 00:21	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 00:21	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 00:21	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/21/23 07:40	11/23/23 00:21	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/21/23 07:40	11/23/23 00:21	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/21/23 07:40	11/23/23 00:21	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/21/23 07:40	11/23/23 00:21	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/21/23 07:40	11/23/23 00:21	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/21/23 07:40	11/23/23 00:21	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/21/23 07:40	11/23/23 00:21	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/21/23 07:40	11/23/23 00:21	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/21/23 07:40	11/23/23 00:21	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-54

Lab Sample ID: 860-61633-3

Date Collected: 11/14/23 08:30

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 00:21	1
Pyridine	<0.725	U *- *1	2.00	0.725	ug/L		11/21/23 07:40	11/23/23 00:21	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/21/23 07:40	11/23/23 00:21	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/21/23 07:40	11/23/23 00:21	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/21/23 07:40	11/23/23 00:21	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/21/23 07:40	11/23/23 00:21	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 00:21	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 00:21	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/21/23 07:40	11/23/23 00:21	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/21/23 07:40	11/23/23 00:21	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		31 - 132	11/21/23 07:40	11/23/23 00:21	1
2-Fluorobiphenyl	62		40 - 130	11/21/23 07:40	11/23/23 00:21	1
2-Fluorophenol (Surr)	41		21 - 114	11/21/23 07:40	11/23/23 00:21	1
Nitrobenzene-d5 (Surr)	56		37 - 130	11/21/23 07:40	11/23/23 00:21	1
Phenol-d5 (Surr)	26		16 - 117	11/21/23 07:40	11/23/23 00:21	1
p-Terphenyl-d14	90		20 - 141	11/21/23 07:40	11/23/23 00:21	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.175	U	0.667	0.175	ug/L		11/20/23 12:55	11/21/23 06:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	55		37 - 133				11/20/23 12:55	11/21/23 06:41	1

Client Sample ID: RB-04

Lab Sample ID: 860-61633-4

Date Collected: 11/14/23 08:50

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 22:35	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 22:35	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 22:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 22:35	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 22:35	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 22:35	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 22:35	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 22:35	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 22:35	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 22:35	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 22:35	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 22:35	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 22:35	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 22:35	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 22:35	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 22:35	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 22:35	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 22:35	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: RB-04

Lab Sample ID: 860-61633-4

Date Collected: 11/14/23 08:50

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/16/23 22:35	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 22:35	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 22:35	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 22:35	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 22:35	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 22:35	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 22:35	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 22:35	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 22:35	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 22:35	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 22:35	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 22:35	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 22:35	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 22:35	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 22:35	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 22:35	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 22:35	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 22:35	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 22:35	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 22:35	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 22:35	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 22:35	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 22:35	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 22:35	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 22:35	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 22:35	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 22:35	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 22:35	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 22:35	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 22:35	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/16/23 22:35	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 22:35	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 22:35	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 22:35	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 22:35	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 22:35	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 22:35	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 22:35	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 22:35	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 22:35	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 22:35	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 22:35	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 22:35	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 22:35	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 22:35	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 22:35	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 22:35	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 22:35	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 22:35	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: RB-04

Lab Sample ID: 860-61633-4

Date Collected: 11/14/23 08:50

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 22:35	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 22:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144					11/16/23 22:35	1
4-Bromofluorobenzene (Surr)	100		74 - 124					11/16/23 22:35	1
Dibromofluoromethane (Surr)	101		75 - 131					11/16/23 22:35	1
Toluene-d8 (Surr)	98		80 - 120					11/16/23 22:35	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 00:42	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/21/23 07:40	11/23/23 00:42	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/21/23 07:40	11/23/23 00:42	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/21/23 07:40	11/23/23 00:42	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/21/23 07:40	11/23/23 00:42	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/21/23 07:40	11/23/23 00:42	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/21/23 07:40	11/23/23 00:42	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 00:42	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/21/23 07:40	11/23/23 00:42	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 00:42	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/21/23 07:40	11/23/23 00:42	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/21/23 07:40	11/23/23 00:42	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/21/23 07:40	11/23/23 00:42	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 00:42	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/21/23 07:40	11/23/23 00:42	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 00:42	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/21/23 07:40	11/23/23 00:42	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/21/23 07:40	11/23/23 00:42	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 00:42	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 00:42	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/21/23 07:40	11/23/23 00:42	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/21/23 07:40	11/23/23 00:42	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/21/23 07:40	11/23/23 00:42	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/21/23 07:40	11/23/23 00:42	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 00:42	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/21/23 07:40	11/23/23 00:42	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/21/23 07:40	11/23/23 00:42	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 00:42	1
2-Picoline	<0.215	U *- *1	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 00:42	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/21/23 07:40	11/23/23 00:42	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/21/23 07:40	11/23/23 00:42	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/21/23 07:40	11/23/23 00:42	1
3,3'-Dimethylbenzidine	<0.444	U *-	8.00	0.444	ug/L		11/21/23 07:40	11/23/23 00:42	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/21/23 07:40	11/23/23 00:42	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/21/23 07:40	11/23/23 00:42	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/21/23 07:40	11/23/23 00:42	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/21/23 07:40	11/23/23 00:42	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/21/23 07:40	11/23/23 00:42	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/21/23 07:40	11/23/23 00:42	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: RB-04

Lab Sample ID: 860-61633-4

Date Collected: 11/14/23 08:50

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/21/23 07:40	11/23/23 00:42	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 00:42	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/21/23 07:40	11/23/23 00:42	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/21/23 07:40	11/23/23 00:42	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/21/23 07:40	11/23/23 00:42	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/21/23 07:40	11/23/23 00:42	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 00:42	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/21/23 07:40	11/23/23 00:42	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/21/23 07:40	11/23/23 00:42	1
Aniline	<0.314	U *	4.00	0.314	ug/L		11/21/23 07:40	11/23/23 00:42	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/21/23 07:40	11/23/23 00:42	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 00:42	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 00:42	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 00:42	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/21/23 07:40	11/23/23 00:42	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 00:42	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/21/23 07:40	11/23/23 00:42	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/21/23 07:40	11/23/23 00:42	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/21/23 07:40	11/23/23 00:42	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/21/23 07:40	11/23/23 00:42	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/21/23 07:40	11/23/23 00:42	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 00:42	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 00:42	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 00:42	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 00:42	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/21/23 07:40	11/23/23 00:42	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/21/23 07:40	11/23/23 00:42	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/21/23 07:40	11/23/23 00:42	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 00:42	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/21/23 07:40	11/23/23 00:42	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/21/23 07:40	11/23/23 00:42	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/21/23 07:40	11/23/23 00:42	1
Diphenyl ether	0.711	J	8.00	0.364	ug/L		11/21/23 07:40	11/23/23 00:42	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/21/23 07:40	11/23/23 00:42	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 00:42	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/21/23 07:40	11/23/23 00:42	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/21/23 07:40	11/23/23 00:42	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 00:42	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/21/23 07:40	11/23/23 00:42	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 00:42	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/21/23 07:40	11/23/23 00:42	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/21/23 07:40	11/23/23 00:42	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/21/23 07:40	11/23/23 00:42	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/21/23 07:40	11/23/23 00:42	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/21/23 07:40	11/23/23 00:42	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/21/23 07:40	11/23/23 00:42	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 00:42	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/21/23 07:40	11/23/23 00:42	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/21/23 07:40	11/23/23 00:42	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: RB-04

Lab Sample ID: 860-61633-4

Date Collected: 11/14/23 08:50

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/21/23 07:40	11/23/23 00:42	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/21/23 07:40	11/23/23 00:42	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/21/23 07:40	11/23/23 00:42	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/21/23 07:40	11/23/23 00:42	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/21/23 07:40	11/23/23 00:42	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 00:42	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/21/23 07:40	11/23/23 00:42	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/21/23 07:40	11/23/23 00:42	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/21/23 07:40	11/23/23 00:42	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 00:42	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 00:42	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 00:42	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 00:42	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 00:42	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 00:42	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/21/23 07:40	11/23/23 00:42	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/21/23 07:40	11/23/23 00:42	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/21/23 07:40	11/23/23 00:42	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/21/23 07:40	11/23/23 00:42	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/21/23 07:40	11/23/23 00:42	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/21/23 07:40	11/23/23 00:42	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/21/23 07:40	11/23/23 00:42	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/21/23 07:40	11/23/23 00:42	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/21/23 07:40	11/23/23 00:42	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 00:42	1
Pyridine	<0.725	U * - *1	2.00	0.725	ug/L		11/21/23 07:40	11/23/23 00:42	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/21/23 07:40	11/23/23 00:42	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/21/23 07:40	11/23/23 00:42	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/21/23 07:40	11/23/23 00:42	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/21/23 07:40	11/23/23 00:42	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 00:42	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 00:42	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/21/23 07:40	11/23/23 00:42	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/21/23 07:40	11/23/23 00:42	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		31 - 132	11/21/23 07:40	11/23/23 00:42	1
2-Fluorobiphenyl	79		40 - 130	11/21/23 07:40	11/23/23 00:42	1
2-Fluorophenol (Surr)	45		21 - 114	11/21/23 07:40	11/23/23 00:42	1
Nitrobenzene-d5 (Surr)	64		37 - 130	11/21/23 07:40	11/23/23 00:42	1
Phenol-d5 (Surr)	29		16 - 117	11/21/23 07:40	11/23/23 00:42	1
p-Terphenyl-d14	93		20 - 141	11/21/23 07:40	11/23/23 00:42	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.169	U	0.643	0.169	ug/L		11/20/23 12:55	11/21/23 07:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	106		37 - 133	11/20/23 12:55	11/21/23 07:10	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-73

Lab Sample ID: 860-61633-5

Date Collected: 11/14/23 09:17

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<322	U	500	322	ug/L			11/17/23 18:51	500
1,1,1-Trichloroethane	<293	U	2500	293	ug/L			11/17/23 18:51	500
1,1,2,2-Tetrachloroethane	<235	U	500	235	ug/L			11/17/23 18:51	500
1,1,2-Trichloro-1,2,2-trifluoroethane	<555	U	5000	555	ug/L			11/17/23 18:51	500
1,1,2-Trichloroethane	<206	U	500	206	ug/L			11/17/23 18:51	500
1,1-Dichloroethane	<318	U	500	318	ug/L			11/17/23 18:51	500
1,1-Dichloroethene	<369	U	500	369	ug/L			11/17/23 18:51	500
1,2,3-Trichloropropane	<235	U	500	235	ug/L			11/17/23 18:51	500
1,2,4-Trimethylbenzene	<209	U	500	209	ug/L			11/17/23 18:51	500
1,2-Dibromo-3-Chloropropane	<336	U	2500	336	ug/L			11/17/23 18:51	500
1,2-Dibromoethane	<500	U	2500	500	ug/L			11/17/23 18:51	500
1,2-Dichloroethane	<186	U	500	186	ug/L			11/17/23 18:51	500
1,2-Dichloropropane	<278	U	2500	278	ug/L			11/17/23 18:51	500
1,3,5-Trimethylbenzene	<206	U	500	206	ug/L			11/17/23 18:51	500
1,3-Butadiene	<284	U	500	284	ug/L			11/17/23 18:51	500
2,2,4-Trimethylpentane	<250	U	2500	250	ug/L			11/17/23 18:51	500
2-Butanone (MEK)	<4140	U	25000	4140	ug/L			11/17/23 18:51	500
2-Hexanone (MBK)	<3720	U	25000	3720	ug/L			11/17/23 18:51	500
2-Propanol	<2610	U	5000	2610	ug/L			11/17/23 18:51	500
3-Chloropropene (Allyl Chloride)	<299	U	2500	299	ug/L			11/17/23 18:51	500
4-Methyl-2-pentanone	<3750	U	25000	3750	ug/L			11/17/23 18:51	500
Acetone	<1530	U	50000	1530	ug/L			11/17/23 18:51	500
Acetonitrile	<7300	U	50000	7300	ug/L			11/17/23 18:51	500
Acrolein	<5560	U	25000	5560	ug/L			11/17/23 18:51	500
Acrylonitrile	<7160	U	25000	7160	ug/L			11/17/23 18:51	500
alpha-Chlorotoluene	<1130	U	2500	1130	ug/L			11/17/23 18:51	500
Benzene	40700		500	230	ug/L			11/17/23 18:51	500
Bromodichloromethane	<276	U	500	276	ug/L			11/17/23 18:51	500
Bromoform	<317	U	2500	317	ug/L			11/17/23 18:51	500
Bromomethane	<710	U	2500	710	ug/L			11/17/23 18:51	500
Carbon disulfide	<825	U	2500	825	ug/L			11/17/23 18:51	500
Carbon tetrachloride	<448	U	2500	448	ug/L			11/17/23 18:51	500
Chlorobenzene	<228	U	500	228	ug/L			11/17/23 18:51	500
Chlorodibromomethane	<274	U	2500	274	ug/L			11/17/23 18:51	500
Chloroethane	<992	U	5000	992	ug/L			11/17/23 18:51	500
Chloroform	<232	U	500	232	ug/L			11/17/23 18:51	500
Chloromethane	<1020	U	5000	1020	ug/L			11/17/23 18:51	500
Chloroprene	<299	U	2500	299	ug/L			11/17/23 18:51	500
cis-1,2-Dichloroethene	<229	U	500	229	ug/L			11/17/23 18:51	500
cis-1,3-Dichloropropene	<534	U	2500	534	ug/L			11/17/23 18:51	500
Cumene (isopropylbenzene)	<296	U	500	296	ug/L			11/17/23 18:51	500
Cyclohexane	<643	U	2500	643	ug/L			11/17/23 18:51	500
Dibromomethane	<179	U	500	179	ug/L			11/17/23 18:51	500
Dichlorodifluoromethane	<393	U	500	393	ug/L			11/17/23 18:51	500
Ethyl methacrylate	<559	U	2500	559	ug/L			11/17/23 18:51	500
Ethylbenzene	<193	U	500	193	ug/L			11/17/23 18:51	500
Hexane	<259	U	2500	259	ug/L			11/17/23 18:51	500
Iodomethane	<3260	U	10000	3260	ug/L			11/17/23 18:51	500
Isobutanol	<8550	U	25000	8550	ug/L			11/17/23 18:51	500

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-73

Lab Sample ID: 860-61633-5

Date Collected: 11/14/23 09:17

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<1360	U	5000	1360	ug/L			11/17/23 18:51	500
Methyl methacrylate	<1130	U	5000	1130	ug/L			11/17/23 18:51	500
Methyl tert-butyl ether	<696	U	2500	696	ug/L			11/17/23 18:51	500
Methylene Chloride	<863	U	2500	863	ug/L			11/17/23 18:51	500
Propionitrile	<1670	U	5000	1670	ug/L			11/17/23 18:51	500
Propylbenzene	<215	U	500	215	ug/L			11/17/23 18:51	500
Styrene	<310	U	500	310	ug/L			11/17/23 18:51	500
Tetrachloroethene	<328	U	500	328	ug/L			11/17/23 18:51	500
Tetrahydrofuran	<917	U	5000	917	ug/L			11/17/23 18:51	500
Toluene	955		500	238	ug/L			11/17/23 18:51	500
trans-1,2-Dichloroethene	<184	U	500	184	ug/L			11/17/23 18:51	500
trans-1,3-Dichloropropene	<634	U	2500	634	ug/L			11/17/23 18:51	500
trans-1,4-Dichloro-2-butene	<675	U	5000	675	ug/L			11/17/23 18:51	500
Trichloroethene	<750	U	2500	750	ug/L			11/17/23 18:51	500
Trichlorofluoromethane	<280	U	500	280	ug/L			11/17/23 18:51	500
Vinyl acetate	<1070	U	10000	1070	ug/L			11/17/23 18:51	500
Vinyl chloride	<214	U	1000	214	ug/L			11/17/23 18:51	500
Xylenes, Total	<620	U	5000	620	ug/L			11/17/23 18:51	500
m,p-Xylenes	<0.620	U	5.00	0.620	mg/L			11/17/23 18:51	500
o-Xylene	<0.251	U	0.500	0.251	mg/L			11/17/23 18:51	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		11/17/23 18:51	500
4-Bromofluorobenzene (Surr)	99		74 - 124		11/17/23 18:51	500
Dibromofluoromethane (Surr)	103		75 - 131		11/17/23 18:51	500
Toluene-d8 (Surr)	98		80 - 120		11/17/23 18:51	500

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<6.72	U	20.0	6.72	ug/L		11/21/23 07:40	11/22/23 23:18	10
1,2,4-Trichlorobenzene	<6.80	U	20.0	6.80	ug/L		11/21/23 07:40	11/22/23 23:18	10
1,2-Dichlorobenzene	<2.96	U	20.0	2.96	ug/L		11/21/23 07:40	11/22/23 23:18	10
1,3,5-Trinitrobenzene	<14.3	U	20.0	14.3	ug/L		11/21/23 07:40	11/22/23 23:18	10
1,3-Dichlorobenzene	<3.50	U	20.0	3.50	ug/L		11/21/23 07:40	11/22/23 23:18	10
1,3-Dinitrobenzene	<1.12	U	20.0	1.12	ug/L		11/21/23 07:40	11/22/23 23:18	10
1,4-Dichlorobenzene	<4.28	U	20.0	4.28	ug/L		11/21/23 07:40	11/22/23 23:18	10
1,4-Naphthoquinone	<18.5	U	80.0	18.5	ug/L		11/21/23 07:40	11/22/23 23:18	10
1-Naphthylamine	<2.32	U	20.0	2.32	ug/L		11/21/23 07:40	11/22/23 23:18	10
2,2'-oxybis[1-chloropropane]	<1.39	U	20.0	1.39	ug/L		11/21/23 07:40	11/22/23 23:18	10
2,3,4,6-Tetrachlorophenol	<1.74	U	20.0	1.74	ug/L		11/21/23 07:40	11/22/23 23:18	10
2,4,5-Trichlorophenol	<1.08	U	20.0	1.08	ug/L		11/21/23 07:40	11/22/23 23:18	10
2,4,6-Trichlorophenol	<1.35	U	20.0	1.35	ug/L		11/21/23 07:40	11/22/23 23:18	10
2,4-Dichlorophenol	<1.15	U	20.0	1.15	ug/L		11/21/23 07:40	11/22/23 23:18	10
2,4-Dimethylphenol	<1.48	U	20.0	1.48	ug/L		11/21/23 07:40	11/22/23 23:18	10
2,4-Dinitrophenol	<14.6	U	80.0	14.6	ug/L		11/21/23 07:40	11/22/23 23:18	10
2,4-Dinitrotoluene	<1.27	U	20.0	1.27	ug/L		11/21/23 07:40	11/22/23 23:18	10
2,6-Dichlorophenol	<1.26	U	20.0	1.26	ug/L		11/21/23 07:40	11/22/23 23:18	10
2,6-Dinitrotoluene	<1.99	U	20.0	1.99	ug/L		11/21/23 07:40	11/22/23 23:18	10
2-Acetylaminofluorene	<15.2	U	80.0	15.2	ug/L		11/21/23 07:40	11/22/23 23:18	10
2-Chloronaphthalene	<10.9	U	80.0	10.9	ug/L		11/21/23 07:40	11/22/23 23:18	10

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-73

Lab Sample ID: 860-61633-5

Date Collected: 11/14/23 09:17

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	<0.135	U	20.0	0.135	ug/L		11/21/23 07:40	11/22/23 23:18	10
2-Methylnaphthalene	<4.80	U	20.0	4.80	ug/L		11/21/23 07:40	11/22/23 23:18	10
2-Methylphenol	5.84	J	20.0	1.59	ug/L		11/21/23 07:40	11/22/23 23:18	10
2-Naphthylamine	<5.95	U	80.0	5.95	ug/L		11/21/23 07:40	11/22/23 23:18	10
2-Nitroaniline	<1.63	U	40.0	1.63	ug/L		11/21/23 07:40	11/22/23 23:18	10
2-Nitrophenol	<1.35	U	20.0	1.35	ug/L		11/21/23 07:40	11/22/23 23:18	10
2-Picoline	<2.15	U *- *1	20.0	2.15	ug/L		11/21/23 07:40	11/22/23 23:18	10
2-Toluidine	<9.34	U	80.0	9.34	ug/L		11/21/23 07:40	11/22/23 23:18	10
3 & 4 Methylphenol	12.2	J	20.0	1.63	ug/L		11/21/23 07:40	11/22/23 23:18	10
3,3'-Dichlorobenzidine	<2.20	U	40.0	2.20	ug/L		11/21/23 07:40	11/22/23 23:18	10
3,3'-Dimethylbenzidine	<4.44	U *-	80.0	4.44	ug/L		11/21/23 07:40	11/22/23 23:18	10
3-Methylcholanthrene	<1.59	U	80.0	1.59	ug/L		11/21/23 07:40	11/22/23 23:18	10
3-Nitroaniline	<3.44	U	20.0	3.44	ug/L		11/21/23 07:40	11/22/23 23:18	10
4,6-Dinitro-2-methylphenol	<7.36	U	80.0	7.36	ug/L		11/21/23 07:40	11/22/23 23:18	10
4-Aminobiphenyl	<2.97	U	80.0	2.97	ug/L		11/21/23 07:40	11/22/23 23:18	10
4-Bromophenyl phenyl ether	<1.67	U	20.0	1.67	ug/L		11/21/23 07:40	11/22/23 23:18	10
4-Chloro-3-methylphenol	<1.57	U	20.0	1.57	ug/L		11/21/23 07:40	11/22/23 23:18	10
4-Chloroaniline	<1.49	U	40.0	1.49	ug/L		11/21/23 07:40	11/22/23 23:18	10
4-Chlorophenyl phenyl ether	<2.32	U	20.0	2.32	ug/L		11/21/23 07:40	11/22/23 23:18	10
4-Nitroaniline	<2.47	U	40.0	2.47	ug/L		11/21/23 07:40	11/22/23 23:18	10
4-Nitroquinoline-1-oxide	<21.5	U	40.0	21.5	ug/L		11/21/23 07:40	11/22/23 23:18	10
7,12-Dimethylbenz(a)anthracene	<0.610	U	80.0	0.610	ug/L		11/21/23 07:40	11/22/23 23:18	10
Acenaphthene	<2.08	U	20.0	2.08	ug/L		11/21/23 07:40	11/22/23 23:18	10
Acenaphthylene	<2.15	U	20.0	2.15	ug/L		11/21/23 07:40	11/22/23 23:18	10
Acetophenone	<2.25	U	40.0	2.25	ug/L		11/21/23 07:40	11/22/23 23:18	10
alpha,alpha-Dimethyl phenethylamine	<40.0	U	40.0	40.0	ug/L		11/21/23 07:40	11/22/23 23:18	10
Aniline	<3.14	U *-	40.0	3.14	ug/L		11/21/23 07:40	11/22/23 23:18	10
Anthracene	<1.54	U	20.0	1.54	ug/L		11/21/23 07:40	11/22/23 23:18	10
Aramite, Total	<6.70	U	40.0	6.70	ug/L		11/21/23 07:40	11/22/23 23:18	10
Benzo[a]anthracene	<1.50	U	20.0	1.50	ug/L		11/21/23 07:40	11/22/23 23:18	10
Benzo[a]pyrene	<1.48	U	20.0	1.48	ug/L		11/21/23 07:40	11/22/23 23:18	10
Benzo[b]fluoranthene	<2.10	U	20.0	2.10	ug/L		11/21/23 07:40	11/22/23 23:18	10
Benzo[g,h,i]perylene	<1.43	U	20.0	1.43	ug/L		11/21/23 07:40	11/22/23 23:18	10
Benzo[k]fluoranthene	<1.66	U	20.0	1.66	ug/L		11/21/23 07:40	11/22/23 23:18	10
Benzyl alcohol	<45.0	U	80.0	45.0	ug/L		11/21/23 07:40	11/22/23 23:18	10
Bis(2-chloroethoxy)methane	<1.70	U	20.0	1.70	ug/L		11/21/23 07:40	11/22/23 23:18	10
Bis(2-chloroethyl)ether	<2.78	U	20.0	2.78	ug/L		11/21/23 07:40	11/22/23 23:18	10
Bis(2-ethylhexyl) phthalate	<2.25	U	20.0	2.25	ug/L		11/21/23 07:40	11/22/23 23:18	10
Butyl benzyl phthalate	<1.50	U	20.0	1.50	ug/L		11/21/23 07:40	11/22/23 23:18	10
Chrysene	<1.59	U	20.0	1.59	ug/L		11/21/23 07:40	11/22/23 23:18	10
Diallate	<6.02	U	80.0	6.02	ug/L		11/21/23 07:40	11/22/23 23:18	10
Dibenz(a,h)anthracene	<1.48	U	20.0	1.48	ug/L		11/21/23 07:40	11/22/23 23:18	10
Dibenzofuran	<3.36	U	20.0	3.36	ug/L		11/21/23 07:40	11/22/23 23:18	10
Diethyl phthalate	<1.18	U	20.0	1.18	ug/L		11/21/23 07:40	11/22/23 23:18	10
Dimethoate	<17.0	U	80.0	17.0	ug/L		11/21/23 07:40	11/22/23 23:18	10
Dimethyl phthalate	<1.43	U	20.0	1.43	ug/L		11/21/23 07:40	11/22/23 23:18	10
Di-n-butyl phthalate	<8.00	U	20.0	8.00	ug/L		11/21/23 07:40	11/22/23 23:18	10
Di-n-octyl phthalate	<1.69	U	20.0	1.69	ug/L		11/21/23 07:40	11/22/23 23:18	10
Dinoseb	<20.0	U	40.0	20.0	ug/L		11/21/23 07:40	11/22/23 23:18	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-73

Lab Sample ID: 860-61633-5

Date Collected: 11/14/23 09:17

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Disulfoton	<13.9	U	80.0	13.9	ug/L		11/21/23 07:40	11/22/23 23:18	10
Ethyl methanesulfonate	<13.8	U	40.0	13.8	ug/L		11/21/23 07:40	11/22/23 23:18	10
Ethyl Parathion	<14.1	U	40.0	14.1	ug/L		11/21/23 07:40	11/22/23 23:18	10
Famphur	<80.0	U	80.0	80.0	ug/L		11/21/23 07:40	11/22/23 23:18	10
Fluoranthene	<1.48	U	20.0	1.48	ug/L		11/21/23 07:40	11/22/23 23:18	10
Fluorene	<2.05	U	20.0	2.05	ug/L		11/21/23 07:40	11/22/23 23:18	10
Hexachlorobenzene	<1.26	U	20.0	1.26	ug/L		11/21/23 07:40	11/22/23 23:18	10
Hexachlorobutadiene	<2.52	U	20.0	2.52	ug/L		11/21/23 07:40	11/22/23 23:18	10
Hexachlorocyclopentadiene	<4.31	U	20.0	4.31	ug/L		11/21/23 07:40	11/22/23 23:18	10
Hexachloroethane	<1.40	U	20.0	1.40	ug/L		11/21/23 07:40	11/22/23 23:18	10
Hexachloropropene	<2.13	U	40.0	2.13	ug/L		11/21/23 07:40	11/22/23 23:18	10
Indeno[1,2,3-cd]pyrene	<8.52	U	20.0	8.52	ug/L		11/21/23 07:40	11/22/23 23:18	10
Isophorone	<1.68	U	20.0	1.68	ug/L		11/21/23 07:40	11/22/23 23:18	10
Isosafrole	<24.6	U	60.0	24.6	ug/L		11/21/23 07:40	11/22/23 23:18	10
Methapyrilene	<1.81	U	20.0	1.81	ug/L		11/21/23 07:40	11/22/23 23:18	10
Methyl methanesulfonate	<0.610	U	20.0	0.610	ug/L		11/21/23 07:40	11/22/23 23:18	10
Methyl parathion	<16.4	U	40.0	16.4	ug/L		11/21/23 07:40	11/22/23 23:18	10
Naphthalene	7.82	J	20.0	4.23	ug/L		11/21/23 07:40	11/22/23 23:18	10
Nitrobenzene	<9.34	U	20.0	9.34	ug/L		11/21/23 07:40	11/22/23 23:18	10
N-Nitro-o-toluidine	<13.1	U	80.0	13.1	ug/L		11/21/23 07:40	11/22/23 23:18	10
N-Nitrosodiethylamine	<15.4	U	40.0	15.4	ug/L		11/21/23 07:40	11/22/23 23:18	10
N-Nitrosodimethylamine	<1.26	U	20.0	1.26	ug/L		11/21/23 07:40	11/22/23 23:18	10
N-Nitrosodi-n-butylamine	<15.4	U	20.0	15.4	ug/L		11/21/23 07:40	11/22/23 23:18	10
N-Nitrosodi-n-propylamine	<1.61	U	20.0	1.61	ug/L		11/21/23 07:40	11/22/23 23:18	10
N-Nitrosodiphenylamine	<1.55	U	20.0	1.55	ug/L		11/21/23 07:40	11/22/23 23:18	10
N-Nitrosomethylethylamine	<1.99	U	20.0	1.99	ug/L		11/21/23 07:40	11/22/23 23:18	10
N-Nitrosomorpholine	<14.4	U	40.0	14.4	ug/L		11/21/23 07:40	11/22/23 23:18	10
N-Nitrosopiperidine	<14.4	U	40.0	14.4	ug/L		11/21/23 07:40	11/22/23 23:18	10
N-Nitrosopyrrolidine	<13.8	U	40.0	13.8	ug/L		11/21/23 07:40	11/22/23 23:18	10
o,o',o"-Triethylphosphorothioate	<0.579	U	80.0	0.579	ug/L		11/21/23 07:40	11/22/23 23:18	10
p-Dimethylamino azobenzene	<0.579	U	80.0	0.579	ug/L		11/21/23 07:40	11/22/23 23:18	10
Pentachlorobenzene	<11.8	U	20.0	11.8	ug/L		11/21/23 07:40	11/22/23 23:18	10
Pentachloronitrobenzene	<12.7	U	20.0	12.7	ug/L		11/21/23 07:40	11/22/23 23:18	10
Pentachlorophenol	<4.41	U	20.0	4.41	ug/L		11/21/23 07:40	11/22/23 23:18	10
Phenacetin	<13.2	U	80.0	13.2	ug/L		11/21/23 07:40	11/22/23 23:18	10
Phenanthrene	<1.76	U	20.0	1.76	ug/L		11/21/23 07:40	11/22/23 23:18	10
Phenol	91.9		40.0	2.02	ug/L		11/21/23 07:40	11/22/23 23:18	10
Phorate	<14.0	U	80.0	14.0	ug/L		11/21/23 07:40	11/22/23 23:18	10
p-Phenylene diamine	<100	U *-	100	100	ug/L		11/21/23 07:40	11/22/23 23:18	10
Pronamide	<13.9	U	40.0	13.9	ug/L		11/21/23 07:40	11/22/23 23:18	10
Pyrene	<1.59	U	20.0	1.59	ug/L		11/21/23 07:40	11/22/23 23:18	10
Pyridine	<7.25	U *- *1	20.0	7.25	ug/L		11/21/23 07:40	11/22/23 23:18	10
Safrole, Total	<1.83	U	40.0	1.83	ug/L		11/21/23 07:40	11/22/23 23:18	10
Sulfotepp	<14.3	U	40.0	14.3	ug/L		11/21/23 07:40	11/22/23 23:18	10
Thionazin	<14.4	U	80.0	14.4	ug/L		11/21/23 07:40	11/22/23 23:18	10
Aramite Peak 2	<27.4	U	40.0	27.4	ug/L		11/21/23 07:40	11/22/23 23:18	10
Isosafrole Peak 1	<24.6	U	60.0	24.6	ug/L		11/21/23 07:40	11/22/23 23:18	10
Diallate Peak 2	<6.02	U	80.0	6.02	ug/L		11/21/23 07:40	11/22/23 23:18	10
Isosafrole Peak 2	<21.2	U	60.0	21.2	ug/L		11/21/23 07:40	11/22/23 23:18	10

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-73

Lab Sample ID: 860-61633-5

Date Collected: 11/14/23 09:17

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 1	<6.75	U	80.0	6.75	ug/L		11/21/23 07:40	11/22/23 23:18	10
Aramite Peak 1	<6.70	U	40.0	6.70	ug/L		11/21/23 07:40	11/22/23 23:18	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		31 - 132				11/21/23 07:40	11/22/23 23:18	10
2-Fluorobiphenyl	79		40 - 130				11/21/23 07:40	11/22/23 23:18	10
2-Fluorophenol (Surr)	44		21 - 114				11/21/23 07:40	11/22/23 23:18	10
Nitrobenzene-d5 (Surr)	49		37 - 130				11/21/23 07:40	11/22/23 23:18	10
Phenol-d5 (Surr)	34		16 - 117				11/21/23 07:40	11/22/23 23:18	10
p-Terphenyl-d14	87		20 - 141				11/21/23 07:40	11/22/23 23:18	10

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1560		400	85.7	ug/L		11/21/23 07:40	11/27/23 18:36	200
Diphenyl ether	5330		1600	72.7	ug/L		11/21/23 07:40	11/27/23 18:36	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132				11/21/23 07:40	11/27/23 18:36	200
2-Fluorobiphenyl	0	S1-	40 - 130				11/21/23 07:40	11/27/23 18:36	200
2-Fluorophenol (Surr)	0	S1-	21 - 114				11/21/23 07:40	11/27/23 18:36	200
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130				11/21/23 07:40	11/27/23 18:36	200
Phenol-d5 (Surr)	0	S1-	16 - 117				11/21/23 07:40	11/27/23 18:36	200
p-Terphenyl-d14	0	S1-	20 - 141				11/21/23 07:40	11/27/23 18:36	200

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.49		0.656	0.172	ug/L		11/20/23 12:55	11/21/23 07:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	70		37 - 133				11/20/23 12:55	11/21/23 07:40	1

Client Sample ID: MW-52S

Lab Sample ID: 860-61633-6

Date Collected: 11/14/23 09:53

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/17/23 17:29	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/17/23 17:29	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/17/23 17:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/17/23 17:29	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/17/23 17:29	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/17/23 17:29	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/17/23 17:29	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/17/23 17:29	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/17/23 17:29	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/17/23 17:29	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/17/23 17:29	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/17/23 17:29	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/17/23 17:29	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/17/23 17:29	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-52S

Lab Sample ID: 860-61633-6

Date Collected: 11/14/23 09:53

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/17/23 17:29	1
2,2,4-Trimethylpentane	0.722	J	5.00	0.500	ug/L			11/17/23 17:29	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/17/23 17:29	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/17/23 17:29	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/17/23 17:29	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/17/23 17:29	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/17/23 17:29	1
Acetone	<3.07	U	100	3.07	ug/L			11/17/23 17:29	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/17/23 17:29	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/17/23 17:29	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/17/23 17:29	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/17/23 17:29	1
Benzene	22.2		1.00	0.460	ug/L			11/17/23 17:29	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/17/23 17:29	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/17/23 17:29	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/17/23 17:29	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/17/23 17:29	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/17/23 17:29	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/17/23 17:29	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/17/23 17:29	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/17/23 17:29	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/17/23 17:29	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/17/23 17:29	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/17/23 17:29	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/17/23 17:29	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/17/23 17:29	1
Cumene (isopropylbenzene)	6.30		1.00	0.592	ug/L			11/17/23 17:29	1
Cyclohexane	3.60	J	5.00	1.29	ug/L			11/17/23 17:29	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/17/23 17:29	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/17/23 17:29	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/17/23 17:29	1
Ethylbenzene	0.540	J	1.00	0.385	ug/L			11/17/23 17:29	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/17/23 17:29	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/17/23 17:29	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/17/23 17:29	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/17/23 17:29	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/17/23 17:29	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/17/23 17:29	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/17/23 17:29	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/17/23 17:29	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/17/23 17:29	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/17/23 17:29	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/17/23 17:29	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/17/23 17:29	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/17/23 17:29	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/17/23 17:29	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/17/23 17:29	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/17/23 17:29	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/17/23 17:29	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-52S

Lab Sample ID: 860-61633-6

Date Collected: 11/14/23 09:53

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/17/23 17:29	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/17/23 17:29	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/17/23 17:29	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/17/23 17:29	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/17/23 17:29	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/17/23 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/17/23 17:29	1
4-Bromofluorobenzene (Surr)	99		74 - 124		11/17/23 17:29	1
Dibromofluoromethane (Surr)	102		75 - 131		11/17/23 17:29	1
Toluene-d8 (Surr)	99		80 - 120		11/17/23 17:29	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 01:03	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/21/23 07:40	11/23/23 01:03	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/21/23 07:40	11/23/23 01:03	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/21/23 07:40	11/23/23 01:03	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/21/23 07:40	11/23/23 01:03	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/21/23 07:40	11/23/23 01:03	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/21/23 07:40	11/23/23 01:03	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 01:03	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/21/23 07:40	11/23/23 01:03	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 01:03	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/21/23 07:40	11/23/23 01:03	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/21/23 07:40	11/23/23 01:03	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/21/23 07:40	11/23/23 01:03	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 01:03	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/21/23 07:40	11/23/23 01:03	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 01:03	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/21/23 07:40	11/23/23 01:03	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/21/23 07:40	11/23/23 01:03	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 01:03	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 01:03	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/21/23 07:40	11/23/23 01:03	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/21/23 07:40	11/23/23 01:03	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/21/23 07:40	11/23/23 01:03	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/21/23 07:40	11/23/23 01:03	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 01:03	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/21/23 07:40	11/23/23 01:03	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/21/23 07:40	11/23/23 01:03	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 01:03	1
2-Picoline	<0.215	U *- *1	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 01:03	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/21/23 07:40	11/23/23 01:03	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/21/23 07:40	11/23/23 01:03	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/21/23 07:40	11/23/23 01:03	1
3,3'-Dimethylbenzidine	<0.444	U *-	8.00	0.444	ug/L		11/21/23 07:40	11/23/23 01:03	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/21/23 07:40	11/23/23 01:03	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/21/23 07:40	11/23/23 01:03	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-52S

Lab Sample ID: 860-61633-6

Date Collected: 11/14/23 09:53

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/21/23 07:40	11/23/23 01:03	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/21/23 07:40	11/23/23 01:03	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/21/23 07:40	11/23/23 01:03	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/21/23 07:40	11/23/23 01:03	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/21/23 07:40	11/23/23 01:03	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 01:03	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/21/23 07:40	11/23/23 01:03	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/21/23 07:40	11/23/23 01:03	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/21/23 07:40	11/23/23 01:03	1
Acenaphthene	1.11	J	2.00	0.208	ug/L		11/21/23 07:40	11/23/23 01:03	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 01:03	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/21/23 07:40	11/23/23 01:03	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/21/23 07:40	11/23/23 01:03	1
Aniline	<0.314	U *	4.00	0.314	ug/L		11/21/23 07:40	11/23/23 01:03	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/21/23 07:40	11/23/23 01:03	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 01:03	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 01:03	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 01:03	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/21/23 07:40	11/23/23 01:03	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 01:03	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/21/23 07:40	11/23/23 01:03	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/21/23 07:40	11/23/23 01:03	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/21/23 07:40	11/23/23 01:03	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/21/23 07:40	11/23/23 01:03	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/21/23 07:40	11/23/23 01:03	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 01:03	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 01:03	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 01:03	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 01:03	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/21/23 07:40	11/23/23 01:03	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/21/23 07:40	11/23/23 01:03	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/21/23 07:40	11/23/23 01:03	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 01:03	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/21/23 07:40	11/23/23 01:03	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/21/23 07:40	11/23/23 01:03	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/21/23 07:40	11/23/23 01:03	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/21/23 07:40	11/23/23 01:03	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 01:03	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/21/23 07:40	11/23/23 01:03	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/21/23 07:40	11/23/23 01:03	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 01:03	1
Fluorene	0.371	J	2.00	0.205	ug/L		11/21/23 07:40	11/23/23 01:03	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 01:03	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/21/23 07:40	11/23/23 01:03	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/21/23 07:40	11/23/23 01:03	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/21/23 07:40	11/23/23 01:03	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/21/23 07:40	11/23/23 01:03	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/21/23 07:40	11/23/23 01:03	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/21/23 07:40	11/23/23 01:03	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-52S

Lab Sample ID: 860-61633-6

Date Collected: 11/14/23 09:53

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 01:03	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/21/23 07:40	11/23/23 01:03	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/21/23 07:40	11/23/23 01:03	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/21/23 07:40	11/23/23 01:03	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/21/23 07:40	11/23/23 01:03	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/21/23 07:40	11/23/23 01:03	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/21/23 07:40	11/23/23 01:03	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/21/23 07:40	11/23/23 01:03	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 01:03	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/21/23 07:40	11/23/23 01:03	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/21/23 07:40	11/23/23 01:03	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/21/23 07:40	11/23/23 01:03	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 01:03	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 01:03	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 01:03	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 01:03	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 01:03	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 01:03	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/21/23 07:40	11/23/23 01:03	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/21/23 07:40	11/23/23 01:03	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/21/23 07:40	11/23/23 01:03	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/21/23 07:40	11/23/23 01:03	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/21/23 07:40	11/23/23 01:03	1
Phenol	6.06		4.00	0.202	ug/L		11/21/23 07:40	11/23/23 01:03	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/21/23 07:40	11/23/23 01:03	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/21/23 07:40	11/23/23 01:03	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/21/23 07:40	11/23/23 01:03	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 01:03	1
Pyridine	<0.725	U * - *1	2.00	0.725	ug/L		11/21/23 07:40	11/23/23 01:03	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/21/23 07:40	11/23/23 01:03	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/21/23 07:40	11/23/23 01:03	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/21/23 07:40	11/23/23 01:03	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/21/23 07:40	11/23/23 01:03	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 01:03	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 01:03	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/21/23 07:40	11/23/23 01:03	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/21/23 07:40	11/23/23 01:03	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		31 - 132	11/21/23 07:40	11/23/23 01:03	1
2-Fluorobiphenyl	89		40 - 130	11/21/23 07:40	11/23/23 01:03	1
2-Fluorophenol (Surr)	41		21 - 114	11/21/23 07:40	11/23/23 01:03	1
Nitrobenzene-d5 (Surr)	59		37 - 130	11/21/23 07:40	11/23/23 01:03	1
Phenol-d5 (Surr)	30		16 - 117	11/21/23 07:40	11/23/23 01:03	1
p-Terphenyl-d14	73		20 - 141	11/21/23 07:40	11/23/23 01:03	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	1200		160	7.27	ug/L		11/21/23 07:40	11/27/23 18:57	20

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-52S

Date Collected: 11/14/23 09:53

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61633-6

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		31 - 132	11/21/23 07:40	11/27/23 18:57	20
2-Fluorobiphenyl	106		40 - 130	11/21/23 07:40	11/27/23 18:57	20
2-Fluorophenol (Surr)	35		21 - 114	11/21/23 07:40	11/27/23 18:57	20
Nitrobenzene-d5 (Surr)	57		37 - 130	11/21/23 07:40	11/27/23 18:57	20
Phenol-d5 (Surr)	14	S1-	16 - 117	11/21/23 07:40	11/27/23 18:57	20
p-Terphenyl-d14	128		20 - 141	11/21/23 07:40	11/27/23 18:57	20

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.911		0.676	0.177	ug/L		11/20/23 12:55	11/21/23 08:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	66		37 - 133				11/20/23 12:55	11/21/23 08:09	1

Client Sample ID: MW-50

Date Collected: 11/14/23 10:18

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61633-7

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<6.44	U	10.0	6.44	ug/L			11/17/23 18:10	10
1,1,1-Trichloroethane	<5.85	U	50.0	5.85	ug/L			11/17/23 18:10	10
1,1,2,2-Tetrachloroethane	<4.70	U	10.0	4.70	ug/L			11/17/23 18:10	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<11.1	U	100	11.1	ug/L			11/17/23 18:10	10
1,1,2-Trichloroethane	<4.11	U	10.0	4.11	ug/L			11/17/23 18:10	10
1,1-Dichloroethane	<6.35	U	10.0	6.35	ug/L			11/17/23 18:10	10
1,1-Dichloroethene	<7.38	U	10.0	7.38	ug/L			11/17/23 18:10	10
1,2,3-Trichloropropane	<4.70	U	10.0	4.70	ug/L			11/17/23 18:10	10
1,2,4-Trimethylbenzene	<4.17	U	10.0	4.17	ug/L			11/17/23 18:10	10
1,2-Dibromo-3-Chloropropane	<6.71	U	50.0	6.71	ug/L			11/17/23 18:10	10
1,2-Dibromoethane	<9.99	U	50.0	9.99	ug/L			11/17/23 18:10	10
1,2-Dichloroethane	<3.72	U	10.0	3.72	ug/L			11/17/23 18:10	10
1,2-Dichloropropane	<5.56	U	50.0	5.56	ug/L			11/17/23 18:10	10
1,3,5-Trimethylbenzene	<4.11	U	10.0	4.11	ug/L			11/17/23 18:10	10
1,3-Butadiene	<5.68	U	10.0	5.68	ug/L			11/17/23 18:10	10
2,2,4-Trimethylpentane	<5.00	U	50.0	5.00	ug/L			11/17/23 18:10	10
2-Butanone (MEK)	<82.8	U	500	82.8	ug/L			11/17/23 18:10	10
2-Hexanone (MBK)	<74.5	U	500	74.5	ug/L			11/17/23 18:10	10
2-Propanol	<52.3	U	100	52.3	ug/L			11/17/23 18:10	10
3-Chloropropene (Allyl Chloride)	<5.97	U	50.0	5.97	ug/L			11/17/23 18:10	10
4-Methyl-2-pentanone	<74.9	U	500	74.9	ug/L			11/17/23 18:10	10
Acetone	133	J	1000	30.7	ug/L			11/17/23 18:10	10
Acetonitrile	<146	U	1000	146	ug/L			11/17/23 18:10	10
Acrolein	<111	U	500	111	ug/L			11/17/23 18:10	10
Acrylonitrile	<143	U	500	143	ug/L			11/17/23 18:10	10
alpha-Chlorotoluene	<22.6	U	50.0	22.6	ug/L			11/17/23 18:10	10
Benzene	1200		10.0	4.60	ug/L			11/17/23 18:10	10
Bromodichloromethane	<5.52	U	10.0	5.52	ug/L			11/17/23 18:10	10
Bromoform	<6.33	U	50.0	6.33	ug/L			11/17/23 18:10	10
Bromomethane	<14.2	U	50.0	14.2	ug/L			11/17/23 18:10	10
Carbon disulfide	<16.5	U	50.0	16.5	ug/L			11/17/23 18:10	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-50

Lab Sample ID: 860-61633-7

Date Collected: 11/14/23 10:18

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<8.96	U	50.0	8.96	ug/L			11/17/23 18:10	10
Chlorobenzene	<4.55	U	10.0	4.55	ug/L			11/17/23 18:10	10
Chlorodibromomethane	<5.47	U	50.0	5.47	ug/L			11/17/23 18:10	10
Chloroethane	<19.8	U	100	19.8	ug/L			11/17/23 18:10	10
Chloroform	<4.64	U	10.0	4.64	ug/L			11/17/23 18:10	10
Chloromethane	<20.4	U	100	20.4	ug/L			11/17/23 18:10	10
Chloroprene	<5.98	U	50.0	5.98	ug/L			11/17/23 18:10	10
cis-1,2-Dichloroethene	<4.57	U	10.0	4.57	ug/L			11/17/23 18:10	10
cis-1,3-Dichloropropene	<10.7	U	50.0	10.7	ug/L			11/17/23 18:10	10
Cumene (isopropylbenzene)	<5.92	U	10.0	5.92	ug/L			11/17/23 18:10	10
Cyclohexane	<12.9	U	50.0	12.9	ug/L			11/17/23 18:10	10
Dibromomethane	<3.57	U	10.0	3.57	ug/L			11/17/23 18:10	10
Dichlorodifluoromethane	<7.85	U	10.0	7.85	ug/L			11/17/23 18:10	10
Ethyl methacrylate	<11.2	U	50.0	11.2	ug/L			11/17/23 18:10	10
Ethylbenzene	<3.85	U	10.0	3.85	ug/L			11/17/23 18:10	10
Hexane	<5.17	U	50.0	5.17	ug/L			11/17/23 18:10	10
Iodomethane	<65.2	U	200	65.2	ug/L			11/17/23 18:10	10
Isobutanol	<171	U	500	171	ug/L			11/17/23 18:10	10
Methacrylonitrile	<27.2	U	100	27.2	ug/L			11/17/23 18:10	10
Methyl methacrylate	<22.5	U	100	22.5	ug/L			11/17/23 18:10	10
Methyl tert-butyl ether	<13.9	U	50.0	13.9	ug/L			11/17/23 18:10	10
Methylene Chloride	<17.3	U	50.0	17.3	ug/L			11/17/23 18:10	10
Propionitrile	<33.4	U	100	33.4	ug/L			11/17/23 18:10	10
Propylbenzene	<4.29	U	10.0	4.29	ug/L			11/17/23 18:10	10
Styrene	<6.19	U	10.0	6.19	ug/L			11/17/23 18:10	10
Tetrachloroethene	<6.55	U	10.0	6.55	ug/L			11/17/23 18:10	10
Tetrahydrofuran	1140		100	18.3	ug/L			11/17/23 18:10	10
Toluene	92.5		10.0	4.75	ug/L			11/17/23 18:10	10
trans-1,2-Dichloroethene	<3.68	U	10.0	3.68	ug/L			11/17/23 18:10	10
trans-1,3-Dichloropropene	<12.7	U	50.0	12.7	ug/L			11/17/23 18:10	10
trans-1,4-Dichloro-2-butene	<13.5	U	100	13.5	ug/L			11/17/23 18:10	10
Trichloroethene	<15.0	U	50.0	15.0	ug/L			11/17/23 18:10	10
Trichlorofluoromethane	<5.60	U	10.0	5.60	ug/L			11/17/23 18:10	10
Vinyl acetate	<21.4	U	200	21.4	ug/L			11/17/23 18:10	10
Vinyl chloride	<4.28	U	20.0	4.28	ug/L			11/17/23 18:10	10
Xylenes, Total	<12.4	U	100	12.4	ug/L			11/17/23 18:10	10
m,p-Xylenes	<0.0124	U	0.100	0.0124	mg/L			11/17/23 18:10	10
o-Xylene	<0.00502	U	0.0100	0.00502	mg/L			11/17/23 18:10	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/17/23 18:10	10
4-Bromofluorobenzene (Surr)	99		74 - 124		11/17/23 18:10	10
Dibromofluoromethane (Surr)	103		75 - 131		11/17/23 18:10	10
Toluene-d8 (Surr)	98		80 - 120		11/17/23 18:10	10

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<3.36	U	10.0	3.36	ug/L		11/21/23 07:40	11/27/23 19:38	5
1,2,4-Trichlorobenzene	<3.40	U	10.0	3.40	ug/L		11/21/23 07:40	11/27/23 19:38	5
1,2-Dichlorobenzene	<1.48	U	10.0	1.48	ug/L		11/21/23 07:40	11/27/23 19:38	5

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-50

Lab Sample ID: 860-61633-7

Date Collected: 11/14/23 10:18

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	<7.15	U	10.0	7.15	ug/L		11/21/23 07:40	11/27/23 19:38	5
1,3-Dichlorobenzene	<1.75	U	10.0	1.75	ug/L		11/21/23 07:40	11/27/23 19:38	5
1,3-Dinitrobenzene	<0.560	U	10.0	0.560	ug/L		11/21/23 07:40	11/27/23 19:38	5
1,4-Dichlorobenzene	<2.14	U	10.0	2.14	ug/L		11/21/23 07:40	11/27/23 19:38	5
1,4-Naphthoquinone	<9.25	U	40.0	9.25	ug/L		11/21/23 07:40	11/27/23 19:38	5
1-Naphthylamine	<1.16	U	10.0	1.16	ug/L		11/21/23 07:40	11/27/23 19:38	5
2,2'-oxybis[1-chloropropane]	<0.695	U	10.0	0.695	ug/L		11/21/23 07:40	11/27/23 19:38	5
2,3,4,6-Tetrachlorophenol	<0.871	U	10.0	0.871	ug/L		11/21/23 07:40	11/27/23 19:38	5
2,4,5-Trichlorophenol	<0.541	U	10.0	0.541	ug/L		11/21/23 07:40	11/27/23 19:38	5
2,4,6-Trichlorophenol	<0.676	U	10.0	0.676	ug/L		11/21/23 07:40	11/27/23 19:38	5
2,4-Dichlorophenol	<0.573	U	10.0	0.573	ug/L		11/21/23 07:40	11/27/23 19:38	5
2,4-Dimethylphenol	<0.738	U	10.0	0.738	ug/L		11/21/23 07:40	11/27/23 19:38	5
2,4-Dinitrophenol	<7.28	U	40.0	7.28	ug/L		11/21/23 07:40	11/27/23 19:38	5
2,4-Dinitrotoluene	<0.635	U	10.0	0.635	ug/L		11/21/23 07:40	11/27/23 19:38	5
2,6-Dichlorophenol	<0.628	U	10.0	0.628	ug/L		11/21/23 07:40	11/27/23 19:38	5
2,6-Dinitrotoluene	<0.993	U	10.0	0.993	ug/L		11/21/23 07:40	11/27/23 19:38	5
2-Acetylaminofluorene	<7.60	U	40.0	7.60	ug/L		11/21/23 07:40	11/27/23 19:38	5
2-Chloronaphthalene	<5.44	U	40.0	5.44	ug/L		11/21/23 07:40	11/27/23 19:38	5
2-Chlorophenol	<0.0676	U	10.0	0.0676	ug/L		11/21/23 07:40	11/27/23 19:38	5
2-Methylnaphthalene	<2.40	U	10.0	2.40	ug/L		11/21/23 07:40	11/27/23 19:38	5
2-Methylphenol	<0.797	U	10.0	0.797	ug/L		11/21/23 07:40	11/27/23 19:38	5
2-Naphthylamine	<2.98	U	40.0	2.98	ug/L		11/21/23 07:40	11/27/23 19:38	5
2-Nitroaniline	<0.814	U	20.0	0.814	ug/L		11/21/23 07:40	11/27/23 19:38	5
2-Nitrophenol	<0.674	U	10.0	0.674	ug/L		11/21/23 07:40	11/27/23 19:38	5
2-Picoline	<1.08	U *- *1	10.0	1.08	ug/L		11/21/23 07:40	11/27/23 19:38	5
2-Toluidine	<4.67	U	40.0	4.67	ug/L		11/21/23 07:40	11/27/23 19:38	5
3 & 4 Methylphenol	1.93	J	10.0	0.814	ug/L		11/21/23 07:40	11/27/23 19:38	5
3,3'-Dichlorobenzidine	<1.10	U	20.0	1.10	ug/L		11/21/23 07:40	11/27/23 19:38	5
3,3'-Dimethylbenzidine	<2.22	U *-	40.0	2.22	ug/L		11/21/23 07:40	11/27/23 19:38	5
3-Methylcholanthrene	<0.793	U	40.0	0.793	ug/L		11/21/23 07:40	11/27/23 19:38	5
3-Nitroaniline	<1.72	U	10.0	1.72	ug/L		11/21/23 07:40	11/27/23 19:38	5
4,6-Dinitro-2-methylphenol	<3.68	U	40.0	3.68	ug/L		11/21/23 07:40	11/27/23 19:38	5
4-Aminobiphenyl	<1.48	U	40.0	1.48	ug/L		11/21/23 07:40	11/27/23 19:38	5
4-Bromophenyl phenyl ether	<0.836	U	10.0	0.836	ug/L		11/21/23 07:40	11/27/23 19:38	5
4-Chloro-3-methylphenol	<0.784	U	10.0	0.784	ug/L		11/21/23 07:40	11/27/23 19:38	5
4-Chloroaniline	<0.745	U	20.0	0.745	ug/L		11/21/23 07:40	11/27/23 19:38	5
4-Chlorophenyl phenyl ether	<1.16	U	10.0	1.16	ug/L		11/21/23 07:40	11/27/23 19:38	5
4-Nitroaniline	<1.23	U	20.0	1.23	ug/L		11/21/23 07:40	11/27/23 19:38	5
4-Nitroquinoline-1-oxide	<10.8	U	20.0	10.8	ug/L		11/21/23 07:40	11/27/23 19:38	5
7,12-Dimethylbenz(a)anthracene	<0.305	U	40.0	0.305	ug/L		11/21/23 07:40	11/27/23 19:38	5
Acenaphthene	<1.04	U	10.0	1.04	ug/L		11/21/23 07:40	11/27/23 19:38	5
Acenaphthylene	<1.07	U	10.0	1.07	ug/L		11/21/23 07:40	11/27/23 19:38	5
Acetophenone	<1.12	U	20.0	1.12	ug/L		11/21/23 07:40	11/27/23 19:38	5
alpha,alpha-Dimethyl phenethylamine	<20.0	U	20.0	20.0	ug/L		11/21/23 07:40	11/27/23 19:38	5
Aniline	<1.57	U *-	20.0	1.57	ug/L		11/21/23 07:40	11/27/23 19:38	5
Anthracene	<0.769	U	10.0	0.769	ug/L		11/21/23 07:40	11/27/23 19:38	5
Aramite, Total	<3.35	U	20.0	3.35	ug/L		11/21/23 07:40	11/27/23 19:38	5
Benzo[a]anthracene	<0.750	U	10.0	0.750	ug/L		11/21/23 07:40	11/27/23 19:38	5
Benzo[a]pyrene	<0.738	U	10.0	0.738	ug/L		11/21/23 07:40	11/27/23 19:38	5

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-50

Lab Sample ID: 860-61633-7

Date Collected: 11/14/23 10:18

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<1.05	U	10.0	1.05	ug/L		11/21/23 07:40	11/27/23 19:38	5
Benzo[g,h,i]perylene	<0.714	U	10.0	0.714	ug/L		11/21/23 07:40	11/27/23 19:38	5
Benzo[k]fluoranthene	<0.831	U	10.0	0.831	ug/L		11/21/23 07:40	11/27/23 19:38	5
Benzyl alcohol	<22.5	U	40.0	22.5	ug/L		11/21/23 07:40	11/27/23 19:38	5
Bis(2-chloroethoxy)methane	<0.850	U	10.0	0.850	ug/L		11/21/23 07:40	11/27/23 19:38	5
Bis(2-chloroethyl)ether	<1.39	U	10.0	1.39	ug/L		11/21/23 07:40	11/27/23 19:38	5
Bis(2-ethylhexyl) phthalate	<1.12	U	10.0	1.12	ug/L		11/21/23 07:40	11/27/23 19:38	5
Butyl benzyl phthalate	<0.750	U	10.0	0.750	ug/L		11/21/23 07:40	11/27/23 19:38	5
Chrysene	<0.797	U	10.0	0.797	ug/L		11/21/23 07:40	11/27/23 19:38	5
Diallate	<3.01	U	40.0	3.01	ug/L		11/21/23 07:40	11/27/23 19:38	5
Dibenz(a,h)anthracene	<0.738	U	10.0	0.738	ug/L		11/21/23 07:40	11/27/23 19:38	5
Dibenzofuran	3.53	J	10.0	1.68	ug/L		11/21/23 07:40	11/27/23 19:38	5
Diethyl phthalate	<0.589	U	10.0	0.589	ug/L		11/21/23 07:40	11/27/23 19:38	5
Dimethoate	<8.49	U	40.0	8.49	ug/L		11/21/23 07:40	11/27/23 19:38	5
Dimethyl phthalate	<0.713	U	10.0	0.713	ug/L		11/21/23 07:40	11/27/23 19:38	5
Di-n-butyl phthalate	<4.00	U	10.0	4.00	ug/L		11/21/23 07:40	11/27/23 19:38	5
Di-n-octyl phthalate	<0.846	U	10.0	0.846	ug/L		11/21/23 07:40	11/27/23 19:38	5
Dinoseb	<10.0	U	20.0	10.0	ug/L		11/21/23 07:40	11/27/23 19:38	5
Disulfoton	<6.96	U	40.0	6.96	ug/L		11/21/23 07:40	11/27/23 19:38	5
Ethyl methanesulfonate	<6.91	U	20.0	6.91	ug/L		11/21/23 07:40	11/27/23 19:38	5
Ethyl Parathion	<7.07	U	20.0	7.07	ug/L		11/21/23 07:40	11/27/23 19:38	5
Famphur	<40.0	U	40.0	40.0	ug/L		11/21/23 07:40	11/27/23 19:38	5
Fluoranthene	<0.738	U	10.0	0.738	ug/L		11/21/23 07:40	11/27/23 19:38	5
Fluorene	<1.03	U	10.0	1.03	ug/L		11/21/23 07:40	11/27/23 19:38	5
Hexachlorobenzene	<0.628	U	10.0	0.628	ug/L		11/21/23 07:40	11/27/23 19:38	5
Hexachlorobutadiene	<1.26	U	10.0	1.26	ug/L		11/21/23 07:40	11/27/23 19:38	5
Hexachlorocyclopentadiene	<2.16	U	10.0	2.16	ug/L		11/21/23 07:40	11/27/23 19:38	5
Hexachloroethane	<0.700	U	10.0	0.700	ug/L		11/21/23 07:40	11/27/23 19:38	5
Hexachloropropene	<1.07	U	20.0	1.07	ug/L		11/21/23 07:40	11/27/23 19:38	5
Indeno[1,2,3-cd]pyrene	<4.26	U	10.0	4.26	ug/L		11/21/23 07:40	11/27/23 19:38	5
Isophorone	<0.840	U	10.0	0.840	ug/L		11/21/23 07:40	11/27/23 19:38	5
Isosafrole	<12.3	U	30.0	12.3	ug/L		11/21/23 07:40	11/27/23 19:38	5
Methapyrilene	<0.905	U	10.0	0.905	ug/L		11/21/23 07:40	11/27/23 19:38	5
Methyl methanesulfonate	<0.305	U	10.0	0.305	ug/L		11/21/23 07:40	11/27/23 19:38	5
Methyl parathion	<8.22	U	20.0	8.22	ug/L		11/21/23 07:40	11/27/23 19:38	5
Naphthalene	13.0		10.0	2.11	ug/L		11/21/23 07:40	11/27/23 19:38	5
Nitrobenzene	<4.67	U	10.0	4.67	ug/L		11/21/23 07:40	11/27/23 19:38	5
N-Nitro-o-toluidine	<6.55	U	40.0	6.55	ug/L		11/21/23 07:40	11/27/23 19:38	5
N-Nitrosodiethylamine	<7.70	U	20.0	7.70	ug/L		11/21/23 07:40	11/27/23 19:38	5
N-Nitrosodimethylamine	<0.628	U	10.0	0.628	ug/L		11/21/23 07:40	11/27/23 19:38	5
N-Nitrosodi-n-butylamine	<7.70	U	10.0	7.70	ug/L		11/21/23 07:40	11/27/23 19:38	5
N-Nitrosodi-n-propylamine	<0.807	U	10.0	0.807	ug/L		11/21/23 07:40	11/27/23 19:38	5
N-Nitrosodiphenylamine	<0.773	U	10.0	0.773	ug/L		11/21/23 07:40	11/27/23 19:38	5
N-Nitrosomethylethylamine	<0.994	U	10.0	0.994	ug/L		11/21/23 07:40	11/27/23 19:38	5
N-Nitrosomorpholine	<7.21	U	20.0	7.21	ug/L		11/21/23 07:40	11/27/23 19:38	5
N-Nitrosopiperidine	<7.20	U	20.0	7.20	ug/L		11/21/23 07:40	11/27/23 19:38	5
N-Nitrosopyrrolidine	<6.90	U	20.0	6.90	ug/L		11/21/23 07:40	11/27/23 19:38	5
o,o',o"-Triethylphosphorothioate	<0.290	U	40.0	0.290	ug/L		11/21/23 07:40	11/27/23 19:38	5
p-Dimethylamino azobenzene	<0.290	U	40.0	0.290	ug/L		11/21/23 07:40	11/27/23 19:38	5

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-50

Lab Sample ID: 860-61633-7

Date Collected: 11/14/23 10:18

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	<5.91	U	10.0	5.91	ug/L		11/21/23 07:40	11/27/23 19:38	5
Pentachloronitrobenzene	<6.33	U	10.0	6.33	ug/L		11/21/23 07:40	11/27/23 19:38	5
Pentachlorophenol	<2.20	U	10.0	2.20	ug/L		11/21/23 07:40	11/27/23 19:38	5
Phenacetin	<6.62	U	40.0	6.62	ug/L		11/21/23 07:40	11/27/23 19:38	5
Phenanthrene	<0.882	U	10.0	0.882	ug/L		11/21/23 07:40	11/27/23 19:38	5
Phenol	3.04	J	20.0	1.01	ug/L		11/21/23 07:40	11/27/23 19:38	5
Phorate	<6.99	U	40.0	6.99	ug/L		11/21/23 07:40	11/27/23 19:38	5
p-Phenylene diamine	<50.0	U *	50.0	50.0	ug/L		11/21/23 07:40	11/27/23 19:38	5
Pronamide	<6.93	U	20.0	6.93	ug/L		11/21/23 07:40	11/27/23 19:38	5
Pyrene	<0.797	U	10.0	0.797	ug/L		11/21/23 07:40	11/27/23 19:38	5
Pyridine	<3.62	U * -1	10.0	3.62	ug/L		11/21/23 07:40	11/27/23 19:38	5
Safrole, Total	<0.916	U	20.0	0.916	ug/L		11/21/23 07:40	11/27/23 19:38	5
Sulfotepp	<7.16	U	20.0	7.16	ug/L		11/21/23 07:40	11/27/23 19:38	5
Thionazin	<7.18	U	40.0	7.18	ug/L		11/21/23 07:40	11/27/23 19:38	5
Aramite Peak 2	<13.7	U	20.0	13.7	ug/L		11/21/23 07:40	11/27/23 19:38	5
Isosafrole Peak 1	<12.3	U	30.0	12.3	ug/L		11/21/23 07:40	11/27/23 19:38	5
Diallate Peak 2	<3.01	U	40.0	3.01	ug/L		11/21/23 07:40	11/27/23 19:38	5
Isosafrole Peak 2	<10.6	U	30.0	10.6	ug/L		11/21/23 07:40	11/27/23 19:38	5
Diallate Peak 1	<3.37	U	40.0	3.37	ug/L		11/21/23 07:40	11/27/23 19:38	5
Aramite Peak 1	<3.35	U	20.0	3.35	ug/L		11/21/23 07:40	11/27/23 19:38	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	102		31 - 132	11/21/23 07:40	11/27/23 19:38	5
2-Fluorobiphenyl	96		40 - 130	11/21/23 07:40	11/27/23 19:38	5
2-Fluorophenol (Surr)	44		21 - 114	11/21/23 07:40	11/27/23 19:38	5
Nitrobenzene-d5 (Surr)	74		37 - 130	11/21/23 07:40	11/27/23 19:38	5
Phenol-d5 (Surr)	26		16 - 117	11/21/23 07:40	11/27/23 19:38	5
p-Terphenyl-d14	133		20 - 141	11/21/23 07:40	11/27/23 19:38	5

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	2300		100	21.4	ug/L		11/21/23 07:40	11/27/23 19:59	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	19	S1-	31 - 132	11/21/23 07:40	11/27/23 19:59	50
2-Fluorobiphenyl	120		40 - 130	11/21/23 07:40	11/27/23 19:59	50
2-Fluorophenol (Surr)	58		21 - 114	11/21/23 07:40	11/27/23 19:59	50
Nitrobenzene-d5 (Surr)	87		37 - 130	11/21/23 07:40	11/27/23 19:59	50
Phenol-d5 (Surr)	0	S1-	16 - 117	11/21/23 07:40	11/27/23 19:59	50
p-Terphenyl-d14	131		20 - 141	11/21/23 07:40	11/27/23 19:59	50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	7420		4000	182	ug/L		11/21/23 07:40	11/28/23 11:13	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/21/23 07:40	11/28/23 11:13	500
2-Fluorobiphenyl	0	S1-	40 - 130	11/21/23 07:40	11/28/23 11:13	500
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/21/23 07:40	11/28/23 11:13	500
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/21/23 07:40	11/28/23 11:13	500
Phenol-d5 (Surr)	0	S1-	16 - 117	11/21/23 07:40	11/28/23 11:13	500

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-50

Date Collected: 11/14/23 10:18

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61633-7

Matrix: Water

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL2 (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14	NaN		20 - 141	11/21/23 07:40	11/28/23 11:13	500

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.88		0.673	0.177	ug/L		11/20/23 12:55	11/21/23 08:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	70		37 - 133	11/20/23 12:55	11/21/23 08:39	1

Client Sample ID: DUPE-04

Date Collected: 11/14/23 00:00

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61633-8

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<6.44	U	10.0	6.44	ug/L			11/17/23 18:31	10
1,1,1-Trichloroethane	<5.85	U	50.0	5.85	ug/L			11/17/23 18:31	10
1,1,2,2-Tetrachloroethane	<4.70	U	10.0	4.70	ug/L			11/17/23 18:31	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<11.1	U	100	11.1	ug/L			11/17/23 18:31	10
1,1,2-Trichloroethane	<4.11	U	10.0	4.11	ug/L			11/17/23 18:31	10
1,1-Dichloroethane	<6.35	U	10.0	6.35	ug/L			11/17/23 18:31	10
1,1-Dichloroethene	<7.38	U	10.0	7.38	ug/L			11/17/23 18:31	10
1,2,3-Trichloropropane	<4.70	U	10.0	4.70	ug/L			11/17/23 18:31	10
1,2,4-Trimethylbenzene	<4.17	U	10.0	4.17	ug/L			11/17/23 18:31	10
1,2-Dibromo-3-Chloropropane	<6.71	U	50.0	6.71	ug/L			11/17/23 18:31	10
1,2-Dibromoethane	<9.99	U	50.0	9.99	ug/L			11/17/23 18:31	10
1,2-Dichloroethane	<3.72	U	10.0	3.72	ug/L			11/17/23 18:31	10
1,2-Dichloropropane	<5.56	U	50.0	5.56	ug/L			11/17/23 18:31	10
1,3,5-Trimethylbenzene	<4.11	U	10.0	4.11	ug/L			11/17/23 18:31	10
1,3-Butadiene	<5.68	U	10.0	5.68	ug/L			11/17/23 18:31	10
2,2,4-Trimethylpentane	<5.00	U	50.0	5.00	ug/L			11/17/23 18:31	10
2-Butanone (MEK)	<82.8	U	500	82.8	ug/L			11/17/23 18:31	10
2-Hexanone (MBK)	<74.5	U	500	74.5	ug/L			11/17/23 18:31	10
2-Propanol	<52.3	U	100	52.3	ug/L			11/17/23 18:31	10
3-Chloropropene (Allyl Chloride)	<5.97	U	50.0	5.97	ug/L			11/17/23 18:31	10
4-Methyl-2-pentanone	<74.9	U	500	74.9	ug/L			11/17/23 18:31	10
Acetone	125	J	1000	30.7	ug/L			11/17/23 18:31	10
Acetonitrile	<146	U	1000	146	ug/L			11/17/23 18:31	10
Acrolein	<111	U	500	111	ug/L			11/17/23 18:31	10
Acrylonitrile	<143	U	500	143	ug/L			11/17/23 18:31	10
alpha-Chlorotoluene	<22.6	U	50.0	22.6	ug/L			11/17/23 18:31	10
Benzene	1140		10.0	4.60	ug/L			11/17/23 18:31	10
Bromodichloromethane	<5.52	U	10.0	5.52	ug/L			11/17/23 18:31	10
Bromoform	<6.33	U	50.0	6.33	ug/L			11/17/23 18:31	10
Bromomethane	<14.2	U	50.0	14.2	ug/L			11/17/23 18:31	10
Carbon disulfide	<16.5	U	50.0	16.5	ug/L			11/17/23 18:31	10
Carbon tetrachloride	<8.96	U	50.0	8.96	ug/L			11/17/23 18:31	10
Chlorobenzene	<4.55	U	10.0	4.55	ug/L			11/17/23 18:31	10
Chlorodibromomethane	<5.47	U	50.0	5.47	ug/L			11/17/23 18:31	10
Chloroethane	<19.8	U	100	19.8	ug/L			11/17/23 18:31	10

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: DUPE-04

Lab Sample ID: 860-61633-8

Date Collected: 11/14/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<4.64	U	10.0	4.64	ug/L			11/17/23 18:31	10
Chloromethane	<20.4	U	100	20.4	ug/L			11/17/23 18:31	10
Chloroprene	<5.98	U	50.0	5.98	ug/L			11/17/23 18:31	10
cis-1,2-Dichloroethene	<4.57	U	10.0	4.57	ug/L			11/17/23 18:31	10
cis-1,3-Dichloropropene	<10.7	U	50.0	10.7	ug/L			11/17/23 18:31	10
Cumene (isopropylbenzene)	<5.92	U	10.0	5.92	ug/L			11/17/23 18:31	10
Cyclohexane	<12.9	U	50.0	12.9	ug/L			11/17/23 18:31	10
Dibromomethane	<3.57	U	10.0	3.57	ug/L			11/17/23 18:31	10
Dichlorodifluoromethane	<7.85	U	10.0	7.85	ug/L			11/17/23 18:31	10
Ethyl methacrylate	<11.2	U	50.0	11.2	ug/L			11/17/23 18:31	10
Ethylbenzene	<3.85	U	10.0	3.85	ug/L			11/17/23 18:31	10
Hexane	<5.17	U	50.0	5.17	ug/L			11/17/23 18:31	10
Iodomethane	<65.2	U	200	65.2	ug/L			11/17/23 18:31	10
Isobutanol	<171	U	500	171	ug/L			11/17/23 18:31	10
Methacrylonitrile	<27.2	U	100	27.2	ug/L			11/17/23 18:31	10
Methyl methacrylate	<22.5	U	100	22.5	ug/L			11/17/23 18:31	10
Methyl tert-butyl ether	<13.9	U	50.0	13.9	ug/L			11/17/23 18:31	10
Methylene Chloride	<17.3	U	50.0	17.3	ug/L			11/17/23 18:31	10
Propionitrile	<33.4	U	100	33.4	ug/L			11/17/23 18:31	10
Propylbenzene	<4.29	U	10.0	4.29	ug/L			11/17/23 18:31	10
Styrene	<6.19	U	10.0	6.19	ug/L			11/17/23 18:31	10
Tetrachloroethene	<6.55	U	10.0	6.55	ug/L			11/17/23 18:31	10
Tetrahydrofuran	1080		100	18.3	ug/L			11/17/23 18:31	10
Toluene	89.4		10.0	4.75	ug/L			11/17/23 18:31	10
trans-1,2-Dichloroethene	<3.68	U	10.0	3.68	ug/L			11/17/23 18:31	10
trans-1,3-Dichloropropene	<12.7	U	50.0	12.7	ug/L			11/17/23 18:31	10
trans-1,4-Dichloro-2-butene	<13.5	U	100	13.5	ug/L			11/17/23 18:31	10
Trichloroethene	<15.0	U	50.0	15.0	ug/L			11/17/23 18:31	10
Trichlorofluoromethane	<5.60	U	10.0	5.60	ug/L			11/17/23 18:31	10
Vinyl acetate	<21.4	U	200	21.4	ug/L			11/17/23 18:31	10
Vinyl chloride	<4.28	U	20.0	4.28	ug/L			11/17/23 18:31	10
Xylenes, Total	<12.4	U	100	12.4	ug/L			11/17/23 18:31	10
m,p-Xylenes	<0.0124	U	0.100	0.0124	mg/L			11/17/23 18:31	10
o-Xylene	<0.00502	U	0.0100	0.00502	mg/L			11/17/23 18:31	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		11/17/23 18:31	10
4-Bromofluorobenzene (Surr)	99		74 - 124		11/17/23 18:31	10
Dibromofluoromethane (Surr)	102		75 - 131		11/17/23 18:31	10
Toluene-d8 (Surr)	99		80 - 120		11/17/23 18:31	10

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<6.72	U	20.0	6.72	ug/L		11/21/23 07:40	11/22/23 22:57	10
1,2,4-Trichlorobenzene	<6.80	U	20.0	6.80	ug/L		11/21/23 07:40	11/22/23 22:57	10
1,2-Dichlorobenzene	<2.96	U	20.0	2.96	ug/L		11/21/23 07:40	11/22/23 22:57	10
1,3,5-Trinitrobenzene	<14.3	U	20.0	14.3	ug/L		11/21/23 07:40	11/22/23 22:57	10
1,3-Dichlorobenzene	<3.50	U	20.0	3.50	ug/L		11/21/23 07:40	11/22/23 22:57	10
1,3-Dinitrobenzene	<1.12	U	20.0	1.12	ug/L		11/21/23 07:40	11/22/23 22:57	10
1,4-Dichlorobenzene	<4.28	U	20.0	4.28	ug/L		11/21/23 07:40	11/22/23 22:57	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: DUPE-04

Lab Sample ID: 860-61633-8

Date Collected: 11/14/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Naphthoquinone	<18.5	U	80.0	18.5	ug/L		11/21/23 07:40	11/22/23 22:57	10
1-Naphthylamine	<2.32	U	20.0	2.32	ug/L		11/21/23 07:40	11/22/23 22:57	10
2,2'-oxybis[1-chloropropane]	<1.39	U	20.0	1.39	ug/L		11/21/23 07:40	11/22/23 22:57	10
2,3,4,6-Tetrachlorophenol	<1.74	U	20.0	1.74	ug/L		11/21/23 07:40	11/22/23 22:57	10
2,4,5-Trichlorophenol	<1.08	U	20.0	1.08	ug/L		11/21/23 07:40	11/22/23 22:57	10
2,4,6-Trichlorophenol	<1.35	U	20.0	1.35	ug/L		11/21/23 07:40	11/22/23 22:57	10
2,4-Dichlorophenol	<1.15	U	20.0	1.15	ug/L		11/21/23 07:40	11/22/23 22:57	10
2,4-Dimethylphenol	<1.48	U	20.0	1.48	ug/L		11/21/23 07:40	11/22/23 22:57	10
2,4-Dinitrophenol	<14.6	U	80.0	14.6	ug/L		11/21/23 07:40	11/22/23 22:57	10
2,4-Dinitrotoluene	<1.27	U	20.0	1.27	ug/L		11/21/23 07:40	11/22/23 22:57	10
2,6-Dichlorophenol	<1.26	U	20.0	1.26	ug/L		11/21/23 07:40	11/22/23 22:57	10
2,6-Dinitrotoluene	<1.99	U	20.0	1.99	ug/L		11/21/23 07:40	11/22/23 22:57	10
2-Acetylaminofluorene	<15.2	U	80.0	15.2	ug/L		11/21/23 07:40	11/22/23 22:57	10
2-Chloronaphthalene	<10.9	U	80.0	10.9	ug/L		11/21/23 07:40	11/22/23 22:57	10
2-Chlorophenol	<0.135	U	20.0	0.135	ug/L		11/21/23 07:40	11/22/23 22:57	10
2-Methylnaphthalene	<4.80	U	20.0	4.80	ug/L		11/21/23 07:40	11/22/23 22:57	10
2-Methylphenol	<1.59	U	20.0	1.59	ug/L		11/21/23 07:40	11/22/23 22:57	10
2-Naphthylamine	<5.95	U	80.0	5.95	ug/L		11/21/23 07:40	11/22/23 22:57	10
2-Nitroaniline	<1.63	U	40.0	1.63	ug/L		11/21/23 07:40	11/22/23 22:57	10
2-Nitrophenol	<1.35	U	20.0	1.35	ug/L		11/21/23 07:40	11/22/23 22:57	10
2-Picoline	<2.15	U *- *1	20.0	2.15	ug/L		11/21/23 07:40	11/22/23 22:57	10
2-Toluidine	<9.34	U	80.0	9.34	ug/L		11/21/23 07:40	11/22/23 22:57	10
3 & 4 Methylphenol	<1.63	U	20.0	1.63	ug/L		11/21/23 07:40	11/22/23 22:57	10
3,3'-Dichlorobenzidine	<2.20	U	40.0	2.20	ug/L		11/21/23 07:40	11/22/23 22:57	10
3,3'-Dimethylbenzidine	<4.44	U *-	80.0	4.44	ug/L		11/21/23 07:40	11/22/23 22:57	10
3-Methylcholanthrene	<1.59	U	80.0	1.59	ug/L		11/21/23 07:40	11/22/23 22:57	10
3-Nitroaniline	<3.44	U	20.0	3.44	ug/L		11/21/23 07:40	11/22/23 22:57	10
4,6-Dinitro-2-methylphenol	<7.36	U	80.0	7.36	ug/L		11/21/23 07:40	11/22/23 22:57	10
4-Aminobiphenyl	<2.97	U	80.0	2.97	ug/L		11/21/23 07:40	11/22/23 22:57	10
4-Bromophenyl phenyl ether	<1.67	U	20.0	1.67	ug/L		11/21/23 07:40	11/22/23 22:57	10
4-Chloro-3-methylphenol	<1.57	U	20.0	1.57	ug/L		11/21/23 07:40	11/22/23 22:57	10
4-Chloroaniline	<1.49	U	40.0	1.49	ug/L		11/21/23 07:40	11/22/23 22:57	10
4-Chlorophenyl phenyl ether	<2.32	U	20.0	2.32	ug/L		11/21/23 07:40	11/22/23 22:57	10
4-Nitroaniline	<2.47	U	40.0	2.47	ug/L		11/21/23 07:40	11/22/23 22:57	10
4-Nitroquinoline-1-oxide	<21.5	U	40.0	21.5	ug/L		11/21/23 07:40	11/22/23 22:57	10
7,12-Dimethylbenz(a)anthracene	<0.610	U	80.0	0.610	ug/L		11/21/23 07:40	11/22/23 22:57	10
Acenaphthene	<2.08	U	20.0	2.08	ug/L		11/21/23 07:40	11/22/23 22:57	10
Acenaphthylene	<2.15	U	20.0	2.15	ug/L		11/21/23 07:40	11/22/23 22:57	10
Acetophenone	<2.25	U	40.0	2.25	ug/L		11/21/23 07:40	11/22/23 22:57	10
alpha,alpha-Dimethyl phenethylamine	<40.0	U	40.0	40.0	ug/L		11/21/23 07:40	11/22/23 22:57	10
Aniline	<3.14	U *-	40.0	3.14	ug/L		11/21/23 07:40	11/22/23 22:57	10
Anthracene	<1.54	U	20.0	1.54	ug/L		11/21/23 07:40	11/22/23 22:57	10
Aramite, Total	<6.70	U	40.0	6.70	ug/L		11/21/23 07:40	11/22/23 22:57	10
Benzo[a]anthracene	<1.50	U	20.0	1.50	ug/L		11/21/23 07:40	11/22/23 22:57	10
Benzo[a]pyrene	<1.48	U	20.0	1.48	ug/L		11/21/23 07:40	11/22/23 22:57	10
Benzo[b]fluoranthene	<2.10	U	20.0	2.10	ug/L		11/21/23 07:40	11/22/23 22:57	10
Benzo[g,h,i]perylene	<1.43	U	20.0	1.43	ug/L		11/21/23 07:40	11/22/23 22:57	10
Benzo[k]fluoranthene	<1.66	U	20.0	1.66	ug/L		11/21/23 07:40	11/22/23 22:57	10
Benzyl alcohol	<45.0	U	80.0	45.0	ug/L		11/21/23 07:40	11/22/23 22:57	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: DUPE-04

Lab Sample ID: 860-61633-8

Date Collected: 11/14/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<1.70	U	20.0	1.70	ug/L		11/21/23 07:40	11/22/23 22:57	10
Bis(2-chloroethyl)ether	<2.78	U	20.0	2.78	ug/L		11/21/23 07:40	11/22/23 22:57	10
Bis(2-ethylhexyl) phthalate	<2.25	U	20.0	2.25	ug/L		11/21/23 07:40	11/22/23 22:57	10
Butyl benzyl phthalate	<1.50	U	20.0	1.50	ug/L		11/21/23 07:40	11/22/23 22:57	10
Chrysene	<1.59	U	20.0	1.59	ug/L		11/21/23 07:40	11/22/23 22:57	10
Diallate	<6.02	U	80.0	6.02	ug/L		11/21/23 07:40	11/22/23 22:57	10
Dibenz(a,h)anthracene	<1.48	U	20.0	1.48	ug/L		11/21/23 07:40	11/22/23 22:57	10
Dibenzofuran	<3.36	U	20.0	3.36	ug/L		11/21/23 07:40	11/22/23 22:57	10
Diethyl phthalate	<1.18	U	20.0	1.18	ug/L		11/21/23 07:40	11/22/23 22:57	10
Dimethoate	<17.0	U	80.0	17.0	ug/L		11/21/23 07:40	11/22/23 22:57	10
Dimethyl phthalate	<1.43	U	20.0	1.43	ug/L		11/21/23 07:40	11/22/23 22:57	10
Di-n-butyl phthalate	<8.00	U	20.0	8.00	ug/L		11/21/23 07:40	11/22/23 22:57	10
Di-n-octyl phthalate	<1.69	U	20.0	1.69	ug/L		11/21/23 07:40	11/22/23 22:57	10
Dinoseb	<20.0	U	40.0	20.0	ug/L		11/21/23 07:40	11/22/23 22:57	10
Disulfoton	<13.9	U	80.0	13.9	ug/L		11/21/23 07:40	11/22/23 22:57	10
Ethyl methanesulfonate	<13.8	U	40.0	13.8	ug/L		11/21/23 07:40	11/22/23 22:57	10
Ethyl Parathion	<14.1	U	40.0	14.1	ug/L		11/21/23 07:40	11/22/23 22:57	10
Famphur	<80.0	U	80.0	80.0	ug/L		11/21/23 07:40	11/22/23 22:57	10
Fluoranthene	<1.48	U	20.0	1.48	ug/L		11/21/23 07:40	11/22/23 22:57	10
Fluorene	<2.05	U	20.0	2.05	ug/L		11/21/23 07:40	11/22/23 22:57	10
Hexachlorobenzene	<1.26	U	20.0	1.26	ug/L		11/21/23 07:40	11/22/23 22:57	10
Hexachlorobutadiene	<2.52	U	20.0	2.52	ug/L		11/21/23 07:40	11/22/23 22:57	10
Hexachlorocyclopentadiene	<4.31	U	20.0	4.31	ug/L		11/21/23 07:40	11/22/23 22:57	10
Hexachloroethane	<1.40	U	20.0	1.40	ug/L		11/21/23 07:40	11/22/23 22:57	10
Hexachloropropene	<2.13	U	40.0	2.13	ug/L		11/21/23 07:40	11/22/23 22:57	10
Indeno[1,2,3-cd]pyrene	<8.52	U	20.0	8.52	ug/L		11/21/23 07:40	11/22/23 22:57	10
Isophorone	<1.68	U	20.0	1.68	ug/L		11/21/23 07:40	11/22/23 22:57	10
Isosafrole	<24.6	U	60.0	24.6	ug/L		11/21/23 07:40	11/22/23 22:57	10
Methapyrilene	<1.81	U	20.0	1.81	ug/L		11/21/23 07:40	11/22/23 22:57	10
Methyl methanesulfonate	<0.610	U	20.0	0.610	ug/L		11/21/23 07:40	11/22/23 22:57	10
Methyl parathion	<16.4	U	40.0	16.4	ug/L		11/21/23 07:40	11/22/23 22:57	10
Naphthalene	9.79	J	20.0	4.23	ug/L		11/21/23 07:40	11/22/23 22:57	10
Nitrobenzene	<9.34	U	20.0	9.34	ug/L		11/21/23 07:40	11/22/23 22:57	10
N-Nitro-o-toluidine	<13.1	U	80.0	13.1	ug/L		11/21/23 07:40	11/22/23 22:57	10
N-Nitrosodiethylamine	<15.4	U	40.0	15.4	ug/L		11/21/23 07:40	11/22/23 22:57	10
N-Nitrosodimethylamine	<1.26	U	20.0	1.26	ug/L		11/21/23 07:40	11/22/23 22:57	10
N-Nitrosodi-n-butylamine	<15.4	U	20.0	15.4	ug/L		11/21/23 07:40	11/22/23 22:57	10
N-Nitrosodi-n-propylamine	<1.61	U	20.0	1.61	ug/L		11/21/23 07:40	11/22/23 22:57	10
N-Nitrosodiphenylamine	<1.55	U	20.0	1.55	ug/L		11/21/23 07:40	11/22/23 22:57	10
N-Nitrosomethylethylamine	<1.99	U	20.0	1.99	ug/L		11/21/23 07:40	11/22/23 22:57	10
N-Nitrosomorpholine	<14.4	U	40.0	14.4	ug/L		11/21/23 07:40	11/22/23 22:57	10
N-Nitrosopiperidine	<14.4	U	40.0	14.4	ug/L		11/21/23 07:40	11/22/23 22:57	10
N-Nitrosopyrrolidine	<13.8	U	40.0	13.8	ug/L		11/21/23 07:40	11/22/23 22:57	10
o,o',o"-Triethylphosphorothioate	<0.579	U	80.0	0.579	ug/L		11/21/23 07:40	11/22/23 22:57	10
p-Dimethylamino azobenzene	<0.579	U	80.0	0.579	ug/L		11/21/23 07:40	11/22/23 22:57	10
Pentachlorobenzene	<11.8	U	20.0	11.8	ug/L		11/21/23 07:40	11/22/23 22:57	10
Pentachloronitrobenzene	<12.7	U	20.0	12.7	ug/L		11/21/23 07:40	11/22/23 22:57	10
Pentachlorophenol	<4.41	U	20.0	4.41	ug/L		11/21/23 07:40	11/22/23 22:57	10
Phenacetin	<13.2	U	80.0	13.2	ug/L		11/21/23 07:40	11/22/23 22:57	10

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: DUPE-04

Lab Sample ID: 860-61633-8

Date Collected: 11/14/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<1.76	U	20.0	1.76	ug/L		11/21/23 07:40	11/22/23 22:57	10
Phenol	<2.02	U	40.0	2.02	ug/L		11/21/23 07:40	11/22/23 22:57	10
Phorate	<14.0	U	80.0	14.0	ug/L		11/21/23 07:40	11/22/23 22:57	10
p-Phenylene diamine	<100	U *	100	100	ug/L		11/21/23 07:40	11/22/23 22:57	10
Pronamide	<13.9	U	40.0	13.9	ug/L		11/21/23 07:40	11/22/23 22:57	10
Pyrene	<1.59	U	20.0	1.59	ug/L		11/21/23 07:40	11/22/23 22:57	10
Pyridine	<7.25	U * -	20.0	7.25	ug/L		11/21/23 07:40	11/22/23 22:57	10
Safrole, Total	<1.83	U	40.0	1.83	ug/L		11/21/23 07:40	11/22/23 22:57	10
Sulfotepp	<14.3	U	40.0	14.3	ug/L		11/21/23 07:40	11/22/23 22:57	10
Thionazin	<14.4	U	80.0	14.4	ug/L		11/21/23 07:40	11/22/23 22:57	10
Aramite Peak 2	<27.4	U	40.0	27.4	ug/L		11/21/23 07:40	11/22/23 22:57	10
Isosafrole Peak 1	<24.6	U	60.0	24.6	ug/L		11/21/23 07:40	11/22/23 22:57	10
Diallate Peak 2	<6.02	U	80.0	6.02	ug/L		11/21/23 07:40	11/22/23 22:57	10
Isosafrole Peak 2	<21.2	U	60.0	21.2	ug/L		11/21/23 07:40	11/22/23 22:57	10
Diallate Peak 1	<6.75	U	80.0	6.75	ug/L		11/21/23 07:40	11/22/23 22:57	10
Aramite Peak 1	<6.70	U	40.0	6.70	ug/L		11/21/23 07:40	11/22/23 22:57	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	52		31 - 132	11/21/23 07:40	11/22/23 22:57	10
2-Fluorobiphenyl	73		40 - 130	11/21/23 07:40	11/22/23 22:57	10
2-Fluorophenol (Surr)	38		21 - 114	11/21/23 07:40	11/22/23 22:57	10
Nitrobenzene-d5 (Surr)	50		37 - 130	11/21/23 07:40	11/22/23 22:57	10
Phenol-d5 (Surr)	17		16 - 117	11/21/23 07:40	11/22/23 22:57	10
p-Terphenyl-d14	74		20 - 141	11/21/23 07:40	11/22/23 22:57	10

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1890		400	85.7	ug/L		11/21/23 07:40	11/27/23 18:15	200
Diphenyl ether	6490		1600	72.7	ug/L		11/21/23 07:40	11/27/23 18:15	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/21/23 07:40	11/27/23 18:15	200
2-Fluorobiphenyl	82		40 - 130	11/21/23 07:40	11/27/23 18:15	200
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/21/23 07:40	11/27/23 18:15	200
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/21/23 07:40	11/27/23 18:15	200
Phenol-d5 (Surr)	0	S1-	16 - 117	11/21/23 07:40	11/27/23 18:15	200
p-Terphenyl-d14	71		20 - 141	11/21/23 07:40	11/27/23 18:15	200

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.71		0.692	0.182	ug/L		11/20/23 12:55	11/21/23 09:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	65		37 - 133				11/20/23 12:55	11/21/23 09:08	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: FB-04

Lab Sample ID: 860-61633-9

Date Collected: 11/14/23 10:18

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 18:29	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 18:29	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 18:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 18:29	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 18:29	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 18:29	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 18:29	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 18:29	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 18:29	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 18:29	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 18:29	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 18:29	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 18:29	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 18:29	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 18:29	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 18:29	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 18:29	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 18:29	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/16/23 18:29	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 18:29	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 18:29	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 18:29	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 18:29	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 18:29	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 18:29	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 18:29	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 18:29	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 18:29	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 18:29	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 18:29	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 18:29	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 18:29	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 18:29	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 18:29	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 18:29	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 18:29	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 18:29	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 18:29	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 18:29	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 18:29	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 18:29	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 18:29	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 18:29	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 18:29	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 18:29	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 18:29	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 18:29	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 18:29	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/16/23 18:29	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: FB-04

Lab Sample ID: 860-61633-9

Date Collected: 11/14/23 10:18

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 18:29	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 18:29	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 18:29	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 18:29	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 18:29	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 18:29	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 18:29	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 18:29	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 18:29	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 18:29	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 18:29	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 18:29	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 18:29	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 18:29	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 18:29	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 18:29	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 18:29	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 18:29	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 18:29	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		11/16/23 18:29	1
4-Bromofluorobenzene (Surr)	99		74 - 124		11/16/23 18:29	1
Dibromofluoromethane (Surr)	101		75 - 131		11/16/23 18:29	1
Toluene-d8 (Surr)	98		80 - 120		11/16/23 18:29	1

Client Sample ID: MW-52D

Lab Sample ID: 860-61633-10

Date Collected: 11/14/23 10:54

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/17/23 17:50	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/17/23 17:50	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/17/23 17:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/17/23 17:50	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/17/23 17:50	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/17/23 17:50	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/17/23 17:50	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/17/23 17:50	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/17/23 17:50	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/17/23 17:50	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/17/23 17:50	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/17/23 17:50	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/17/23 17:50	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/17/23 17:50	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/17/23 17:50	1
2,2,4-Trimethylpentane	0.642	J	5.00	0.500	ug/L			11/17/23 17:50	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/17/23 17:50	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-52D

Lab Sample ID: 860-61633-10

Date Collected: 11/14/23 10:54

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/17/23 17:50	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/17/23 17:50	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/17/23 17:50	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/17/23 17:50	1
Acetone	<3.07	U	100	3.07	ug/L			11/17/23 17:50	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/17/23 17:50	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/17/23 17:50	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/17/23 17:50	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/17/23 17:50	1
Benzene	0.475	J	1.00	0.460	ug/L			11/17/23 17:50	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/17/23 17:50	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/17/23 17:50	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/17/23 17:50	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/17/23 17:50	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/17/23 17:50	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/17/23 17:50	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/17/23 17:50	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/17/23 17:50	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/17/23 17:50	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/17/23 17:50	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/17/23 17:50	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/17/23 17:50	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/17/23 17:50	1
Cumene (isopropylbenzene)	6.16		1.00	0.592	ug/L			11/17/23 17:50	1
Cyclohexane	3.31	J	5.00	1.29	ug/L			11/17/23 17:50	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/17/23 17:50	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/17/23 17:50	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/17/23 17:50	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/17/23 17:50	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/17/23 17:50	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/17/23 17:50	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/17/23 17:50	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/17/23 17:50	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/17/23 17:50	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/17/23 17:50	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/17/23 17:50	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/17/23 17:50	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/17/23 17:50	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/17/23 17:50	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/17/23 17:50	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/17/23 17:50	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/17/23 17:50	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/17/23 17:50	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/17/23 17:50	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/17/23 17:50	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/17/23 17:50	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/17/23 17:50	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/17/23 17:50	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/17/23 17:50	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-52D

Lab Sample ID: 860-61633-10

Date Collected: 11/14/23 10:54

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/17/23 17:50	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/17/23 17:50	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/17/23 17:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144					11/17/23 17:50	1
4-Bromofluorobenzene (Surr)	99		74 - 124					11/17/23 17:50	1
Dibromofluoromethane (Surr)	104		75 - 131					11/17/23 17:50	1
Toluene-d8 (Surr)	99		80 - 120					11/17/23 17:50	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 01:44	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/21/23 07:40	11/23/23 01:44	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/21/23 07:40	11/23/23 01:44	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/21/23 07:40	11/23/23 01:44	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/21/23 07:40	11/23/23 01:44	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/21/23 07:40	11/23/23 01:44	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/21/23 07:40	11/23/23 01:44	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/23/23 01:44	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/21/23 07:40	11/23/23 01:44	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 01:44	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/21/23 07:40	11/23/23 01:44	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/21/23 07:40	11/23/23 01:44	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/21/23 07:40	11/23/23 01:44	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 01:44	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/21/23 07:40	11/23/23 01:44	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 01:44	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/21/23 07:40	11/23/23 01:44	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/21/23 07:40	11/23/23 01:44	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 01:44	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 01:44	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/21/23 07:40	11/23/23 01:44	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/21/23 07:40	11/23/23 01:44	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/21/23 07:40	11/23/23 01:44	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/21/23 07:40	11/23/23 01:44	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 01:44	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/21/23 07:40	11/23/23 01:44	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/21/23 07:40	11/23/23 01:44	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/23/23 01:44	1
2-Picoline	<0.215	U *- *1	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 01:44	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/21/23 07:40	11/23/23 01:44	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/21/23 07:40	11/23/23 01:44	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/21/23 07:40	11/23/23 01:44	1
3,3'-Dimethylbenzidine	<0.444	U *-	8.00	0.444	ug/L		11/21/23 07:40	11/23/23 01:44	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/21/23 07:40	11/23/23 01:44	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/21/23 07:40	11/23/23 01:44	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/21/23 07:40	11/23/23 01:44	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/21/23 07:40	11/23/23 01:44	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/21/23 07:40	11/23/23 01:44	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-52D

Lab Sample ID: 860-61633-10

Date Collected: 11/14/23 10:54

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/21/23 07:40	11/23/23 01:44	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/21/23 07:40	11/23/23 01:44	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/23/23 01:44	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/21/23 07:40	11/23/23 01:44	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/21/23 07:40	11/23/23 01:44	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/21/23 07:40	11/23/23 01:44	1
Acenaphthene	0.857	J	2.00	0.208	ug/L		11/21/23 07:40	11/23/23 01:44	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/21/23 07:40	11/23/23 01:44	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/21/23 07:40	11/23/23 01:44	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/21/23 07:40	11/23/23 01:44	1
Aniline	<0.314	U *	4.00	0.314	ug/L		11/21/23 07:40	11/23/23 01:44	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/21/23 07:40	11/23/23 01:44	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 01:44	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 01:44	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 01:44	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/21/23 07:40	11/23/23 01:44	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 01:44	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/21/23 07:40	11/23/23 01:44	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/21/23 07:40	11/23/23 01:44	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/21/23 07:40	11/23/23 01:44	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/21/23 07:40	11/23/23 01:44	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/21/23 07:40	11/23/23 01:44	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/23/23 01:44	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 01:44	1
Diallylate	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 01:44	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 01:44	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/21/23 07:40	11/23/23 01:44	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/21/23 07:40	11/23/23 01:44	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/21/23 07:40	11/23/23 01:44	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/23/23 01:44	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/21/23 07:40	11/23/23 01:44	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/21/23 07:40	11/23/23 01:44	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/21/23 07:40	11/23/23 01:44	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/21/23 07:40	11/23/23 01:44	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 01:44	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/21/23 07:40	11/23/23 01:44	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/21/23 07:40	11/23/23 01:44	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/23/23 01:44	1
Fluorene	0.427	J	2.00	0.205	ug/L		11/21/23 07:40	11/23/23 01:44	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 01:44	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/21/23 07:40	11/23/23 01:44	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/21/23 07:40	11/23/23 01:44	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/21/23 07:40	11/23/23 01:44	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/21/23 07:40	11/23/23 01:44	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/21/23 07:40	11/23/23 01:44	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/21/23 07:40	11/23/23 01:44	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 01:44	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/21/23 07:40	11/23/23 01:44	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/21/23 07:40	11/23/23 01:44	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-52D

Lab Sample ID: 860-61633-10

Date Collected: 11/14/23 10:54

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/21/23 07:40	11/23/23 01:44	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/21/23 07:40	11/23/23 01:44	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/21/23 07:40	11/23/23 01:44	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/21/23 07:40	11/23/23 01:44	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/21/23 07:40	11/23/23 01:44	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/23/23 01:44	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/21/23 07:40	11/23/23 01:44	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/21/23 07:40	11/23/23 01:44	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/21/23 07:40	11/23/23 01:44	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/23/23 01:44	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 01:44	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/23/23 01:44	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/23/23 01:44	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 01:44	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/23/23 01:44	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/21/23 07:40	11/23/23 01:44	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/21/23 07:40	11/23/23 01:44	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/21/23 07:40	11/23/23 01:44	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/21/23 07:40	11/23/23 01:44	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/21/23 07:40	11/23/23 01:44	1
Phenol	4.76		4.00	0.202	ug/L		11/21/23 07:40	11/23/23 01:44	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/21/23 07:40	11/23/23 01:44	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/21/23 07:40	11/23/23 01:44	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/21/23 07:40	11/23/23 01:44	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/23/23 01:44	1
Pyridine	<0.725	U * - *1	2.00	0.725	ug/L		11/21/23 07:40	11/23/23 01:44	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/21/23 07:40	11/23/23 01:44	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/21/23 07:40	11/23/23 01:44	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/21/23 07:40	11/23/23 01:44	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/21/23 07:40	11/23/23 01:44	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/23/23 01:44	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/23/23 01:44	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/21/23 07:40	11/23/23 01:44	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/21/23 07:40	11/23/23 01:44	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/23/23 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		31 - 132	11/21/23 07:40	11/23/23 01:44	1
2-Fluorobiphenyl	81		40 - 130	11/21/23 07:40	11/23/23 01:44	1
2-Fluorophenol (Surr)	41		21 - 114	11/21/23 07:40	11/23/23 01:44	1
Nitrobenzene-d5 (Surr)	61		37 - 130	11/21/23 07:40	11/23/23 01:44	1
Phenol-d5 (Surr)	30		16 - 117	11/21/23 07:40	11/23/23 01:44	1
p-Terphenyl-d14	62		20 - 141	11/21/23 07:40	11/23/23 01:44	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	1010		160	7.27	ug/L		11/21/23 07:40	11/27/23 19:17	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	34		31 - 132	11/21/23 07:40	11/27/23 19:17	20

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-52D

Lab Sample ID: 860-61633-10

Date Collected: 11/14/23 10:54

Matrix: Water

Date Received: 11/15/23 09:50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		40 - 130	11/21/23 07:40	11/27/23 19:17	20
2-Fluorophenol (Surr)	28		21 - 114	11/21/23 07:40	11/27/23 19:17	20
Nitrobenzene-d5 (Surr)	71		37 - 130	11/21/23 07:40	11/27/23 19:17	20
Phenol-d5 (Surr)	16		16 - 117	11/21/23 07:40	11/27/23 19:17	20
p-Terphenyl-d14	86		20 - 141	11/21/23 07:40	11/27/23 19:17	20

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.23		0.719	0.189	ug/L		11/20/23 12:55	11/21/23 09:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	111		37 - 133				11/20/23 12:55	11/21/23 09:37	1

Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-61115-C-1 MS	Matrix Spike	93	97	99	98
860-61633-1	TB-09 (111423)	98	100	101	98
860-61633-2	MW-75	100	99	103	97
860-61633-3	MW-54	101	100	101	98
860-61633-4	RB-04	100	100	101	98
860-61633-5	MW-73	101	99	103	98
860-61633-6	MW-52S	102	99	102	99
860-61633-7	MW-50	102	99	103	98
860-61633-8	DUPE-04	101	99	102	99
860-61633-9	FB-04	100	99	101	98
860-61633-10	MW-52D	101	99	104	99
860-61702-D-10 MS	Matrix Spike	95	98	101	98
LCS 860-131391/3	Lab Control Sample	95	98	101	97
LCS 860-131527/3	Lab Control Sample	96	97	102	97
LCSD 860-131391/4	Lab Control Sample Dup	93	98	102	97
LCSD 860-131527/4	Lab Control Sample Dup	94	98	102	98
MB 860-131391/9	Method Blank	100	98	100	99
MB 860-131527/8	Method Blank	100	100	102	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	2FP (19-120)	FBP (43-130)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-61633-2	MW-75				66		
860-61633-3	MW-54				55		
860-61633-4	RB-04				106		
860-61633-5	MW-73				70		
860-61633-6	MW-52S				66		
860-61633-7	MW-50				70		
860-61633-8	DUPE-04				65		
860-61633-10	MW-52D				111		
LCS 860-131915/2-A	Lab Control Sample	111	53	124	143 S1+	40	100
LCSD 860-131915/3-A	Lab Control Sample Dup	98	50	109	119	38	96
MB 860-131915/1-A	Method Blank	57	42	61	74	33	78

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
2FP = 2-Fluorophenol (Surr)
FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (31-132)	FBP (40-130)	2FP (21-114)	NBZ (37-130)	PHL (16-117)	TPHd14 (20-141)
860-61633-2	MW-75	58	60	41	58	25	85
860-61633-3	MW-54	71	62	41	56	26	90
860-61633-4	RB-04	70	79	45	64	29	93
860-61633-5	MW-73	73	79	44	49	34	87
860-61633-5 - DL	MW-73	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
860-61633-6	MW-52S	88	89	41	59	30	73
860-61633-6 - DL	MW-52S	68	106	35	57	14 S1-	128
860-61633-7	MW-50	102	96	44	74	26	133
860-61633-7 - DL	MW-50	19 S1-	120	58	87	0 S1-	131
860-61633-7 - DL2	MW-50	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	NaN
860-61633-8	DUPE-04	52	73	38	50	17	74
860-61633-8 - DL	DUPE-04	0 S1-	82	0 S1-	0 S1-	0 S1-	71
860-61633-10	MW-52D	74	81	41	61	30	62
860-61633-10 - DL	MW-52D	34	88	28	71	16	86
LCS 860-132037/2-A	Lab Control Sample	72	70	50	65	38	109
LCSD 860-132037/3-A	Lab Control Sample Dup	148 S1+	137 S1+	104	132 S1+	79	221 S1+
MB 860-132037/1-A	Method Blank	50	53	39	56	22	99

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-131391/9

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/16/23 17:27	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/16/23 17:27	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/16/23 17:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/16/23 17:27	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/16/23 17:27	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/16/23 17:27	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/16/23 17:27	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/16/23 17:27	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/16/23 17:27	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/16/23 17:27	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/16/23 17:27	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/16/23 17:27	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/16/23 17:27	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/16/23 17:27	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/16/23 17:27	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/16/23 17:27	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/16/23 17:27	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/16/23 17:27	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/16/23 17:27	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/16/23 17:27	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/16/23 17:27	1
Acetone	<3.07	U	100	3.07	ug/L			11/16/23 17:27	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/16/23 17:27	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/16/23 17:27	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/16/23 17:27	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/16/23 17:27	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/16/23 17:27	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/16/23 17:27	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/16/23 17:27	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/16/23 17:27	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/16/23 17:27	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/16/23 17:27	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/16/23 17:27	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/16/23 17:27	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/16/23 17:27	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/16/23 17:27	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/16/23 17:27	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/16/23 17:27	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/16/23 17:27	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/16/23 17:27	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/16/23 17:27	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/16/23 17:27	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/16/23 17:27	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/16/23 17:27	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/16/23 17:27	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/16/23 17:27	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/16/23 17:27	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/16/23 17:27	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131391/9

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/16/23 17:27	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/16/23 17:27	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/16/23 17:27	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/16/23 17:27	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/16/23 17:27	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/16/23 17:27	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/16/23 17:27	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/16/23 17:27	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/16/23 17:27	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/16/23 17:27	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/16/23 17:27	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/16/23 17:27	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/16/23 17:27	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/16/23 17:27	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/16/23 17:27	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/16/23 17:27	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/16/23 17:27	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/16/23 17:27	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/16/23 17:27	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/16/23 17:27	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/16/23 17:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		11/16/23 17:27	1
4-Bromofluorobenzene (Surr)	98		74 - 124		11/16/23 17:27	1
Dibromofluoromethane (Surr)	100		75 - 131		11/16/23 17:27	1
Toluene-d8 (Surr)	99		80 - 120		11/16/23 17:27	1

Lab Sample ID: LCS 860-131391/3

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	49.00		ug/L		98	72 - 125
1,1,1-Trichloroethane	50.0	46.38		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.88		ug/L		100	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.91		ug/L		100	60 - 140
1,1,2-Trichloroethane	50.0	49.94		ug/L		100	70 - 130
1,1-Dichloroethane	50.0	45.44		ug/L		91	70 - 130
1,1-Dichloroethene	50.0	45.19		ug/L		90	50 - 150
1,2,3-Trichloropropane	50.0	47.54		ug/L		95	75 - 125
1,2,4-Trimethylbenzene	50.0	48.24		ug/L		96	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	54.96		ug/L		110	59 - 125
1,2-Dibromoethane	50.0	50.35		ug/L		101	73 - 125
1,2-Dichloroethane	50.0	48.92		ug/L		98	72 - 130
1,2-Dichloropropane	50.0	48.76		ug/L		98	74 - 125
1,3,5-Trimethylbenzene	50.0	48.60		ug/L		97	60 - 140
1,3-Butadiene	50.0	44.12		ug/L		88	60 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131391/3

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	45.76		ug/L		92	70 - 130
2-Butanone (MEK)	250	245.9		ug/L		98	60 - 140
2-Hexanone (MBK)	250	233.0		ug/L		93	60 - 140
2-Propanol	500	443.3		ug/L		89	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	42.52		ug/L		85	70 - 130
4-Methyl-2-pentanone	250	239.0		ug/L		96	60 - 140
Acetone	250	235.6		ug/L		94	60 - 140
Acetonitrile	500	426.8		ug/L		85	60 - 140
Acrolein	250	216.0		ug/L		86	60 - 140
Acrylonitrile	500	485.3		ug/L		97	60 - 140
alpha-Chlorotoluene	50.0	44.94		ug/L		90	75 - 125
Benzene	50.0	47.76		ug/L		96	75 - 125
Bromodichloromethane	50.0	49.10		ug/L		98	75 - 125
Bromoform	50.0	50.25		ug/L		100	70 - 130
Bromomethane	50.0	50.18		ug/L		100	60 - 140
Carbon disulfide	50.0	42.18		ug/L		84	60 - 140
Carbon tetrachloride	50.0	45.59		ug/L		91	70 - 130
Chlorobenzene	50.0	48.60		ug/L		97	65 - 135
Chlorodibromomethane	50.0	49.28		ug/L		99	73 - 125
Chloroethane	50.0	41.91		ug/L		84	60 - 140
Chloroform	50.0	48.58		ug/L		97	70 - 121
Chloromethane	50.0	43.40		ug/L		87	60 - 140
Chloroprene	50.0	44.81		ug/L		90	70 - 130
cis-1,2-Dichloroethene	50.0	46.94		ug/L		94	75 - 125
cis-1,3-Dichloropropene	50.0	48.63		ug/L		97	74 - 125
Cumene (isopropylbenzene)	50.0	47.49		ug/L		95	75 - 125
Cyclohexane	50.0	44.27		ug/L		89	70 - 130
Dibromomethane	50.0	51.58		ug/L		103	69 - 127
Dichlorodifluoromethane	50.0	42.81		ug/L		86	50 - 150
Ethyl methacrylate	50.0	47.69		ug/L		95	70 - 130
Ethylbenzene	50.0	47.27		ug/L		95	75 - 125
Hexane	50.0	43.39		ug/L		87	72 - 125
Iodomethane	50.0	55.84		ug/L		112	75 - 125
Isobutanol	1240	1186		ug/L		96	60 - 140
Methacrylonitrile	500	495.0		ug/L		99	70 - 130
Methyl methacrylate	100	98.24		ug/L		98	70 - 130
Methyl tert-butyl ether	50.0	47.67		ug/L		95	65 - 135
Methylene Chloride	50.0	47.77		ug/L		96	71 - 125
Propionitrile	500	492.8		ug/L		99	70 - 130
Propylbenzene	50.0	48.54		ug/L		97	75 - 125
Styrene	50.0	48.11		ug/L		96	75 - 125
Tetrachloroethene	50.0	48.59		ug/L		97	71 - 125
Tetrahydrofuran	100	98.10		ug/L		98	75 - 125
Toluene	50.0	47.08		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	48.81		ug/L		98	75 - 125
trans-1,3-Dichloropropene	50.0	46.67		ug/L		93	66 - 125
trans-1,4-Dichloro-2-butene	50.0	47.64		ug/L		95	70 - 130
Trichloroethene	50.0	51.18		ug/L		102	75 - 135
Trichlorofluoromethane	50.0	50.08		ug/L		100	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131391/3

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	205.5		ug/L		82	60 - 140
Vinyl chloride	50.0	46.14		ug/L		92	60 - 140
Xylenes, Total	100	93.32		ug/L		93	75 - 125
m,p-Xylenes	0.0500	0.04670		mg/L		93	75 - 125
o-Xylene	0.0500	0.04662		mg/L		93	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: LCSD 860-131391/4

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	46.78		ug/L		94	72 - 125	5	25
1,1,1-Trichloroethane	50.0	44.75		ug/L		89	70 - 130	4	25
1,1,2,2-Tetrachloroethane	50.0	48.68		ug/L		97	74 - 125	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.26		ug/L		103	60 - 140	3	25
1,1,2-Trichloroethane	50.0	48.40		ug/L		97	70 - 130	3	25
1,1-Dichloroethane	50.0	45.62		ug/L		91	70 - 130	0	25
1,1-Dichloroethene	50.0	43.45		ug/L		87	50 - 150	4	25
1,2,3-Trichloropropane	50.0	48.45		ug/L		97	75 - 125	2	25
1,2,4-Trimethylbenzene	50.0	45.56		ug/L		91	75 - 125	6	25
1,2-Dibromo-3-Chloropropane	50.0	52.02		ug/L		104	59 - 125	5	25
1,2-Dibromoethane	50.0	49.20		ug/L		98	73 - 125	2	25
1,2-Dichloroethane	50.0	46.77		ug/L		94	72 - 130	4	25
1,2-Dichloropropane	50.0	46.58		ug/L		93	74 - 125	5	25
1,3,5-Trimethylbenzene	50.0	45.60		ug/L		91	60 - 140	6	25
1,3-Butadiene	50.0	45.30		ug/L		91	60 - 150	3	25
2,2,4-Trimethylpentane	50.0	44.77		ug/L		90	70 - 130	2	25
2-Butanone (MEK)	250	245.7		ug/L		98	60 - 140	0	25
2-Hexanone (MBK)	250	232.1		ug/L		93	60 - 140	0	25
2-Propanol	500	442.1		ug/L		88	70 - 120	0	25
3-Chloropropene (Allyl Chloride)	50.0	43.98		ug/L		88	70 - 130	3	25
4-Methyl-2-pentanone	250	235.6		ug/L		94	60 - 140	1	25
Acetone	250	236.5		ug/L		95	60 - 140	0	25
Acetonitrile	500	441.5		ug/L		88	60 - 140	3	25
Acrolein	250	219.9		ug/L		88	60 - 140	2	25
Acrylonitrile	500	478.3		ug/L		96	60 - 140	1	25
alpha-Chlorotoluene	50.0	46.36		ug/L		93	75 - 125	3	25
Benzene	50.0	45.21		ug/L		90	75 - 125	5	25
Bromodichloromethane	50.0	46.43		ug/L		93	75 - 125	6	25
Bromoform	50.0	48.61		ug/L		97	70 - 130	3	25
Bromomethane	50.0	49.87		ug/L		100	60 - 140	1	25
Carbon disulfide	50.0	40.73		ug/L		81	60 - 140	4	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131391/4

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	44.64		ug/L		89	70 - 130	2	25
Chlorobenzene	50.0	46.29		ug/L		93	65 - 135	5	25
Chlorodibromomethane	50.0	47.63		ug/L		95	73 - 125	3	25
Chloroethane	50.0	41.20		ug/L		82	60 - 140	2	25
Chloroform	50.0	46.99		ug/L		94	70 - 121	3	25
Chloromethane	50.0	42.09		ug/L		84	60 - 140	3	25
Chloroprene	50.0	43.22		ug/L		86	70 - 130	4	25
cis-1,2-Dichloroethene	50.0	45.16		ug/L		90	75 - 125	4	25
cis-1,3-Dichloropropene	50.0	46.76		ug/L		94	74 - 125	4	25
Cumene (isopropylbenzene)	50.0	45.25		ug/L		90	75 - 125	5	25
Cyclohexane	50.0	43.75		ug/L		87	70 - 130	1	25
Dibromomethane	50.0	50.47		ug/L		101	69 - 127	2	25
Dichlorodifluoromethane	50.0	43.24		ug/L		86	50 - 150	1	25
Ethyl methacrylate	50.0	46.62		ug/L		93	70 - 130	2	25
Ethylbenzene	50.0	45.12		ug/L		90	75 - 125	5	25
Hexane	50.0	44.79		ug/L		90	72 - 125	3	25
Iodomethane	50.0	53.05		ug/L		106	75 - 125	5	25
Isobutanol	1240	1170		ug/L		94	60 - 140	1	25
Methacrylonitrile	500	491.9		ug/L		98	70 - 130	1	25
Methyl methacrylate	100	95.76		ug/L		96	70 - 130	3	25
Methyl tert-butyl ether	50.0	45.42		ug/L		91	65 - 135	5	25
Methylene Chloride	50.0	45.98		ug/L		92	71 - 125	4	25
Propionitrile	500	490.0		ug/L		98	70 - 130	1	25
Propylbenzene	50.0	45.81		ug/L		92	75 - 125	6	25
Styrene	50.0	46.18		ug/L		92	75 - 125	4	25
Tetrachloroethene	50.0	47.11		ug/L		94	71 - 125	3	25
Tetrahydrofuran	100	95.55		ug/L		96	75 - 125	3	25
Toluene	50.0	45.42		ug/L		91	70 - 130	4	25
trans-1,2-Dichloroethene	50.0	45.79		ug/L		92	75 - 125	6	25
trans-1,3-Dichloropropene	50.0	45.61		ug/L		91	66 - 125	2	25
trans-1,4-Dichloro-2-butene	50.0	46.62		ug/L		93	70 - 130	2	25
Trichloroethene	50.0	48.33		ug/L		97	75 - 135	6	25
Trichlorofluoromethane	50.0	51.69		ug/L		103	60 - 140	3	25
Vinyl acetate	250	225.8		ug/L		90	60 - 140	9	25
Vinyl chloride	50.0	45.62		ug/L		91	60 - 140	1	25
Xylenes, Total	100	89.53		ug/L		90	75 - 125	4	25
m,p-Xylenes	0.0500	0.04499		mg/L		90	75 - 125	4	25
o-Xylene	0.0500	0.04454		mg/L		89	75 - 125	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	97		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61115-C-1 MS

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	43.11		ug/L		86	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	41.68		ug/L		83	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	44.76		ug/L		90	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	48.69		ug/L		97	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	44.09		ug/L		88	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	42.60		ug/L		85	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	43.40		ug/L		87	59 - 172
1,2,3-Trichloropropane	1.60		50.0	42.90		ug/L		83	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	42.27		ug/L		85	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	47.85		ug/L		96	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	45.35		ug/L		91	73 - 125
1,2-Dichloroethane	1.07		50.0	44.19		ug/L		86	68 - 127
1,2-Dichloropropane	4.29	J	50.0	47.45		ug/L		86	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	42.30		ug/L		85	70 - 125
1,3-Butadiene	<0.568	U	50.0	46.05		ug/L		92	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	40.85		ug/L		82	70 - 130
2-Butanone (MEK)	<8.28	U	250	232.3		ug/L		93	60 - 140
2-Hexanone (MBK)	<7.45	U	250	228.5		ug/L		91	60 - 140
2-Propanol	<5.23	U	500	390.2		ug/L		78	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	40.34		ug/L		81	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	230.8		ug/L		92	60 - 140
Acetone	<3.07	U	250	213.8		ug/L		86	60 - 140
Acetonitrile	<14.6	U	500	404.9		ug/L		81	60 - 140
Acrolein	<11.1	U	250	145.9		ug/L		58	50 - 150
Acrylonitrile	<14.3	U	500	417.0		ug/L		83	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	41.97		ug/L		84	70 - 130
Benzene	0.466	J	50.0	42.63		ug/L		84	66 - 142
Bromodichloromethane	<0.552	U	50.0	42.79		ug/L		86	75 - 125
Bromoform	<0.633	U	50.0	43.94		ug/L		88	75 - 125
Bromomethane	<1.42	U	50.0	48.56		ug/L		97	60 - 140
Carbon disulfide	<1.65	U	50.0	41.67		ug/L		83	60 - 140
Carbon tetrachloride	<0.896	U	50.0	38.41		ug/L		77	62 - 125
Chlorobenzene	1.19		50.0	44.75		ug/L		87	60 - 133
Chlorodibromomethane	<0.547	U	50.0	44.12		ug/L		88	73 - 125
Chloroethane	<1.98	U	50.0	40.11		ug/L		80	60 - 140
Chloroform	2.65		50.0	45.33		ug/L		85	70 - 130
Chloromethane	<2.04	U	50.0	43.72		ug/L		87	60 - 140
Chloroprene	<0.598	U	50.0	39.50		ug/L		79	70 - 130
cis-1,2-Dichloroethene	1.89		50.0	43.58		ug/L		83	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	42.98		ug/L		86	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	42.01		ug/L		84	75 - 125
Cyclohexane	<1.29	U	50.0	42.62		ug/L		85	70 - 130
Dibromomethane	<0.357	U	50.0	45.93		ug/L		92	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	54.24		ug/L		108	70 - 130
Ethyl methacrylate	<1.12	U	50.0	42.59		ug/L		85	70 - 130
Ethylbenzene	<0.385	U	50.0	42.21		ug/L		84	75 - 125
Hexane	<0.517	U	50.0	44.43		ug/L		89	72 - 125
Iodomethane	<6.52	U	50.0	51.40		ug/L		103	75 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61115-C-1 MS

Matrix: Water

Analysis Batch: 131391

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Isobutanol	<17.1	U	1240	1025		ug/L		83	60 - 140
Methacrylonitrile	<2.72	U	500	427.0		ug/L		85	70 - 130
Methyl methacrylate	<2.25	U	100	86.21		ug/L		86	70 - 130
Methyl tert-butyl ether	2.62	J	50.0	43.48		ug/L		82	65 - 135
Methylene Chloride	<1.73	U	50.0	42.11		ug/L		84	75 - 125
Propionitrile	<3.34	U	500	415.7		ug/L		83	70 - 130
Propylbenzene	<0.429	U	50.0	43.53		ug/L		87	75 - 125
Styrene	<0.619	U	50.0	41.65		ug/L		83	75 - 125
Tetrachloroethene	<0.655	U	50.0	43.78		ug/L		88	71 - 125
Tetrahydrofuran	<1.83	U	100	86.30		ug/L		86	75 - 125
Toluene	0.864	J	50.0	43.18		ug/L		85	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	43.21		ug/L		86	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	42.13		ug/L		84	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	41.57		ug/L		83	70 - 130
Trichloroethene	<1.50	U	50.0	45.74		ug/L		91	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	50.79		ug/L		102	60 - 140
Vinyl acetate	<2.14	U	250	226.5		ug/L		91	60 - 140
Vinyl chloride	13.9		50.0	62.02		ug/L		96	60 - 140
Xylenes, Total	<1.24	U	100	84.41		ug/L		84	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.04243		mg/L		85	75 - 125
o-Xylene	<0.000502	U	0.0500	0.04198		mg/L		84	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 144
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	99		75 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: MB 860-131527/8

Matrix: Water

Analysis Batch: 131527

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/17/23 15:26	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/17/23 15:26	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/17/23 15:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/17/23 15:26	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/17/23 15:26	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/17/23 15:26	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/17/23 15:26	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/17/23 15:26	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/17/23 15:26	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/17/23 15:26	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/17/23 15:26	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/17/23 15:26	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/17/23 15:26	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/17/23 15:26	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/17/23 15:26	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131527/8

Matrix: Water

Analysis Batch: 131527

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/17/23 15:26	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/17/23 15:26	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/17/23 15:26	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/17/23 15:26	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/17/23 15:26	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/17/23 15:26	1
Acetone	<3.07	U	100	3.07	ug/L			11/17/23 15:26	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/17/23 15:26	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/17/23 15:26	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/17/23 15:26	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/17/23 15:26	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/17/23 15:26	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/17/23 15:26	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/17/23 15:26	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/17/23 15:26	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/17/23 15:26	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/17/23 15:26	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/17/23 15:26	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/17/23 15:26	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/17/23 15:26	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/17/23 15:26	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/17/23 15:26	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/17/23 15:26	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/17/23 15:26	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/17/23 15:26	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/17/23 15:26	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/17/23 15:26	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/17/23 15:26	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/17/23 15:26	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/17/23 15:26	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/17/23 15:26	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/17/23 15:26	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/17/23 15:26	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/17/23 15:26	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/17/23 15:26	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/17/23 15:26	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/17/23 15:26	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/17/23 15:26	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/17/23 15:26	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/17/23 15:26	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/17/23 15:26	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/17/23 15:26	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/17/23 15:26	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/17/23 15:26	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/17/23 15:26	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/17/23 15:26	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/17/23 15:26	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/17/23 15:26	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/17/23 15:26	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131527/8

Matrix: Water

Analysis Batch: 131527

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/17/23 15:26	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/17/23 15:26	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/17/23 15:26	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/17/23 15:26	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/17/23 15:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		11/17/23 15:26	1
4-Bromofluorobenzene (Surr)	100		74 - 124		11/17/23 15:26	1
Dibromofluoromethane (Surr)	102		75 - 131		11/17/23 15:26	1
Toluene-d8 (Surr)	98		80 - 120		11/17/23 15:26	1

Lab Sample ID: LCS 860-131527/3

Matrix: Water

Analysis Batch: 131527

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	44.75		ug/L		89	72 - 125
1,1,1-Trichloroethane	50.0	44.18		ug/L		88	70 - 130
1,1,2,2-Tetrachloroethane	50.0	46.57		ug/L		93	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.17		ug/L		106	60 - 140
1,1,2-Trichloroethane	50.0	46.34		ug/L		93	70 - 130
1,1-Dichloroethane	50.0	44.65		ug/L		89	70 - 130
1,1-Dichloroethene	50.0	44.40		ug/L		89	50 - 150
1,2,3-Trichloropropane	50.0	44.27		ug/L		89	75 - 125
1,2,4-Trimethylbenzene	50.0	44.69		ug/L		89	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	51.09		ug/L		102	59 - 125
1,2-Dibromoethane	50.0	47.15		ug/L		94	73 - 125
1,2-Dichloroethane	50.0	45.87		ug/L		92	72 - 130
1,2-Dichloropropane	50.0	44.87		ug/L		90	74 - 125
1,3,5-Trimethylbenzene	50.0	44.88		ug/L		90	60 - 140
1,3-Butadiene	50.0	41.29		ug/L		83	60 - 150
2,2,4-Trimethylpentane	50.0	45.68		ug/L		91	70 - 130
2-Butanone (MEK)	250	231.0		ug/L		92	60 - 140
2-Hexanone (MBK)	250	223.8		ug/L		90	60 - 140
2-Propanol	500	427.3		ug/L		85	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	40.35		ug/L		81	70 - 130
4-Methyl-2-pentanone	250	225.5		ug/L		90	60 - 140
Acetone	250	227.7		ug/L		91	60 - 140
Acetonitrile	500	405.1		ug/L		81	60 - 140
Acrolein	250	205.2		ug/L		82	60 - 140
Acrylonitrile	500	460.0		ug/L		92	60 - 140
alpha-Chlorotoluene	50.0	42.58		ug/L		85	75 - 125
Benzene	50.0	44.12		ug/L		88	75 - 125
Bromodichloromethane	50.0	44.84		ug/L		90	75 - 125
Bromoform	50.0	45.62		ug/L		91	70 - 130
Bromomethane	50.0	43.82		ug/L		88	60 - 140
Carbon disulfide	50.0	42.39		ug/L		85	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131527/3

Matrix: Water

Analysis Batch: 131527

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	50.0	42.22		ug/L		84	70 - 130
Chlorobenzene	50.0	44.80		ug/L		90	65 - 135
Chlorodibromomethane	50.0	45.20		ug/L		90	73 - 125
Chloroethane	50.0	37.66		ug/L		75	60 - 140
Chloroform	50.0	45.94		ug/L		92	70 - 121
Chloromethane	50.0	39.77		ug/L		80	60 - 140
Chloroprene	50.0	43.27		ug/L		87	70 - 130
cis-1,2-Dichloroethene	50.0	44.38		ug/L		89	75 - 125
cis-1,3-Dichloropropene	50.0	44.65		ug/L		89	74 - 125
Cumene (isopropylbenzene)	50.0	44.05		ug/L		88	75 - 125
Cyclohexane	50.0	44.66		ug/L		89	70 - 130
Dibromomethane	50.0	47.66		ug/L		95	69 - 127
Dichlorodifluoromethane	50.0	38.89		ug/L		78	50 - 150
Ethyl methacrylate	50.0	44.53		ug/L		89	70 - 130
Ethylbenzene	50.0	43.99		ug/L		88	75 - 125
Hexane	50.0	45.06		ug/L		90	72 - 125
Iodomethane	50.0	54.71		ug/L		109	75 - 125
Isobutanol	1240	1114		ug/L		90	60 - 140
Methacrylonitrile	500	468.1		ug/L		94	70 - 130
Methyl methacrylate	100	91.46		ug/L		91	70 - 130
Methyl tert-butyl ether	50.0	45.01		ug/L		90	65 - 135
Methylene Chloride	50.0	45.13		ug/L		90	71 - 125
Propionitrile	500	466.5		ug/L		93	70 - 130
Propylbenzene	50.0	46.22		ug/L		92	75 - 125
Styrene	50.0	44.56		ug/L		89	75 - 125
Tetrachloroethene	50.0	45.77		ug/L		92	71 - 125
Tetrahydrofuran	100	94.81		ug/L		95	75 - 125
Toluene	50.0	44.25		ug/L		88	70 - 130
trans-1,2-Dichloroethene	50.0	46.29		ug/L		93	75 - 125
trans-1,3-Dichloropropene	50.0	43.61		ug/L		87	66 - 125
trans-1,4-Dichloro-2-butene	50.0	44.36		ug/L		89	70 - 130
Trichloroethene	50.0	46.90		ug/L		94	75 - 135
Trichlorofluoromethane	50.0	47.48		ug/L		95	60 - 140
Vinyl acetate	250	219.1		ug/L		88	60 - 140
Vinyl chloride	50.0	42.42		ug/L		85	60 - 140
Xylenes, Total	100	87.19		ug/L		87	75 - 125
m,p-Xylenes	0.0500	0.04356		mg/L		87	75 - 125
o-Xylene	0.0500	0.04363		mg/L		87	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	97		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131527/4

Matrix: Water

Analysis Batch: 131527

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	48.52		ug/L		97	72 - 125	8	25
1,1,1-Trichloroethane	50.0	48.36		ug/L		97	70 - 130	9	25
1,1,2,2-Tetrachloroethane	50.0	49.97		ug/L		100	74 - 125	7	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.77		ug/L		112	60 - 140	5	25
1,1,2-Trichloroethane	50.0	49.81		ug/L		100	70 - 130	7	25
1,1-Dichloroethane	50.0	48.16		ug/L		96	70 - 130	8	25
1,1-Dichloroethene	50.0	47.91		ug/L		96	50 - 150	8	25
1,2,3-Trichloropropane	50.0	46.73		ug/L		93	75 - 125	5	25
1,2,4-Trimethylbenzene	50.0	48.27		ug/L		97	75 - 125	8	25
1,2-Dibromo-3-Chloropropane	50.0	51.92		ug/L		104	59 - 125	2	25
1,2-Dibromoethane	50.0	50.54		ug/L		101	73 - 125	7	25
1,2-Dichloroethane	50.0	48.41		ug/L		97	72 - 130	5	25
1,2-Dichloropropane	50.0	48.50		ug/L		97	74 - 125	8	25
1,3,5-Trimethylbenzene	50.0	48.29		ug/L		97	60 - 140	7	25
1,3-Butadiene	50.0	45.82		ug/L		92	60 - 150	10	25
2,2,4-Trimethylpentane	50.0	47.24		ug/L		94	70 - 130	3	25
2-Butanone (MEK)	250	247.7		ug/L		99	60 - 140	7	25
2-Hexanone (MBK)	250	236.4		ug/L		95	60 - 140	5	25
2-Propanol	500	445.2		ug/L		89	70 - 120	4	25
3-Chloropropene (Allyl Chloride)	50.0	43.24		ug/L		86	70 - 130	7	25
4-Methyl-2-pentanone	250	239.9		ug/L		96	60 - 140	6	25
Acetone	250	228.9		ug/L		92	60 - 140	1	25
Acetonitrile	500	434.0		ug/L		87	60 - 140	7	25
Acrolein	250	211.2		ug/L		84	60 - 140	3	25
Acrylonitrile	500	482.3		ug/L		96	60 - 140	5	25
alpha-Chlorotoluene	50.0	47.04		ug/L		94	75 - 125	10	25
Benzene	50.0	47.95		ug/L		96	75 - 125	8	25
Bromodichloromethane	50.0	48.66		ug/L		97	75 - 125	8	25
Bromoform	50.0	48.50		ug/L		97	70 - 130	6	25
Bromomethane	50.0	47.32		ug/L		95	60 - 140	8	25
Carbon disulfide	50.0	45.26		ug/L		91	60 - 140	7	25
Carbon tetrachloride	50.0	45.69		ug/L		91	70 - 130	8	25
Chlorobenzene	50.0	49.19		ug/L		98	65 - 135	9	25
Chlorodibromomethane	50.0	48.97		ug/L		98	73 - 125	8	25
Chloroethane	50.0	42.43		ug/L		85	60 - 140	12	25
Chloroform	50.0	49.13		ug/L		98	70 - 121	7	25
Chloromethane	50.0	41.47		ug/L		83	60 - 140	4	25
Chloroprene	50.0	46.80		ug/L		94	70 - 130	8	25
cis-1,2-Dichloroethene	50.0	48.21		ug/L		96	75 - 125	8	25
cis-1,3-Dichloropropene	50.0	48.33		ug/L		97	74 - 125	8	25
Cumene (isopropylbenzene)	50.0	48.17		ug/L		96	75 - 125	9	25
Cyclohexane	50.0	47.62		ug/L		95	70 - 130	6	25
Dibromomethane	50.0	51.17		ug/L		102	69 - 127	7	25
Dichlorodifluoromethane	50.0	41.33		ug/L		83	50 - 150	6	25
Ethyl methacrylate	50.0	47.86		ug/L		96	70 - 130	7	25
Ethylbenzene	50.0	47.97		ug/L		96	75 - 125	9	25
Hexane	50.0	49.13		ug/L		98	72 - 125	9	25
Iodomethane	50.0	57.51		ug/L		115	75 - 125	5	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131527/4

Matrix: Water

Analysis Batch: 131527

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isobutanol	1240	1170		ug/L		94	60 - 140	5	25
Methacrylonitrile	500	496.4		ug/L		99	70 - 130	6	25
Methyl methacrylate	100	98.25		ug/L		98	70 - 130	7	25
Methyl tert-butyl ether	50.0	47.20		ug/L		94	65 - 135	5	25
Methylene Chloride	50.0	48.76		ug/L		98	71 - 125	8	25
Propionitrile	500	493.5		ug/L		99	70 - 130	6	25
Propylbenzene	50.0	48.37		ug/L		97	75 - 125	5	25
Styrene	50.0	48.71		ug/L		97	75 - 125	9	25
Tetrachloroethene	50.0	49.56		ug/L		99	71 - 125	8	25
Tetrahydrofuran	100	96.22		ug/L		96	75 - 125	1	25
Toluene	50.0	48.29		ug/L		97	70 - 130	9	25
trans-1,2-Dichloroethene	50.0	49.27		ug/L		99	75 - 125	6	25
trans-1,3-Dichloropropene	50.0	47.01		ug/L		94	66 - 125	8	25
trans-1,4-Dichloro-2-butene	50.0	47.69		ug/L		95	70 - 130	7	25
Trichloroethene	50.0	51.24		ug/L		102	75 - 135	9	25
Trichlorofluoromethane	50.0	47.32		ug/L		95	60 - 140	0	25
Vinyl acetate	250	237.5		ug/L		95	60 - 140	8	25
Vinyl chloride	50.0	45.44		ug/L		91	60 - 140	7	25
Xylenes, Total	100	95.74		ug/L		96	75 - 125	9	25
m,p-Xylenes	0.0500	0.04799		mg/L		96	75 - 125	10	25
o-Xylene	0.0500	0.04775		mg/L		95	75 - 125	9	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: 860-61702-D-10 MS

Matrix: Water

Analysis Batch: 131527

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	47.51		ug/L		95	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	46.45		ug/L		93	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	49.19		ug/L		98	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	50.64		ug/L		101	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	48.22		ug/L		96	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	47.05		ug/L		94	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	45.32		ug/L		91	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	45.03		ug/L		90	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	47.33		ug/L		95	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	52.04		ug/L		104	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	48.78		ug/L		98	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	47.64		ug/L		95	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	47.78		ug/L		96	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	47.46		ug/L		95	70 - 125
1,3-Butadiene	<0.568	U	50.0	45.77		ug/L		92	70 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61702-D-10 MS

Matrix: Water

Analysis Batch: 131527

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	<0.500	U	50.0	45.45		ug/L		91	70 - 130
2-Butanone (MEK)	<8.28	U	250	239.2		ug/L		96	60 - 140
2-Hexanone (MBK)	<7.45	U	250	227.7		ug/L		91	60 - 140
2-Propanol	<5.23	U	500	429.7		ug/L		86	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	41.29		ug/L		83	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	229.7		ug/L		92	60 - 140
Acetone	<3.07	U	250	233.4		ug/L		93	60 - 140
Acetonitrile	<14.6	U	500	414.5		ug/L		83	60 - 140
Acrolein	<11.1	U	250	205.4		ug/L		82	50 - 150
Acrylonitrile	<14.3	U	500	462.3		ug/L		92	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	45.66		ug/L		91	70 - 130
Benzene	<0.460	U	50.0	46.85		ug/L		94	66 - 142
Bromodichloromethane	<0.552	U	50.0	47.28		ug/L		95	75 - 125
Bromoform	<0.633	U	50.0	47.32		ug/L		95	75 - 125
Bromomethane	<1.42	U	50.0	47.55		ug/L		95	60 - 140
Carbon disulfide	<1.65	U	50.0	42.43		ug/L		85	60 - 140
Carbon tetrachloride	<0.896	U	50.0	42.94		ug/L		86	62 - 125
Chlorobenzene	<0.455	U	50.0	47.60		ug/L		95	60 - 133
Chlorodibromomethane	<0.547	U	50.0	47.13		ug/L		94	73 - 125
Chloroethane	<1.98	U	50.0	41.65		ug/L		83	60 - 140
Chloroform	<0.464	U	50.0	48.28		ug/L		97	70 - 130
Chloromethane	<2.04	U	50.0	42.05		ug/L		84	60 - 140
Chloroprene	<0.598	U	50.0	43.96		ug/L		88	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	46.34		ug/L		93	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	46.91		ug/L		94	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	46.90		ug/L		94	75 - 125
Cyclohexane	<1.29	U	50.0	44.70		ug/L		89	70 - 130
Dibromomethane	<0.357	U	50.0	49.23		ug/L		98	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	40.02		ug/L		80	70 - 130
Ethyl methacrylate	<1.12	U	50.0	46.44		ug/L		93	70 - 130
Ethylbenzene	<0.385	U	50.0	46.93		ug/L		94	75 - 125
Hexane	<0.517	U	50.0	45.20		ug/L		90	72 - 125
Iodomethane	<6.52	U	50.0	55.23		ug/L		110	75 - 125
Isobutanol	<17.1	U	1240	1132		ug/L		91	60 - 140
Methacrylonitrile	<2.72	U	500	473.4		ug/L		95	70 - 130
Methyl methacrylate	<2.25	U	100	95.32		ug/L		95	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	45.32		ug/L		91	65 - 135
Methylene Chloride	<1.73	U	50.0	46.66		ug/L		93	75 - 125
Propionitrile	<3.34	U	500	470.3		ug/L		94	70 - 130
Propylbenzene	<0.429	U	50.0	49.02		ug/L		98	75 - 125
Styrene	<0.619	U	50.0	47.47		ug/L		95	75 - 125
Tetrachloroethene	<0.655	U	50.0	48.73		ug/L		97	71 - 125
Tetrahydrofuran	<1.83	U	100	92.65		ug/L		93	75 - 125
Toluene	<0.475	U	50.0	46.70		ug/L		93	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	48.42		ug/L		97	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	45.76		ug/L		92	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	44.18		ug/L		88	70 - 130
Trichloroethene	<1.50	U	50.0	49.29		ug/L		99	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	52.07		ug/L		104	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61702-D-10 MS

Matrix: Water

Analysis Batch: 131527

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	<2.14	U	250	225.8		ug/L		90	60 - 140
Vinyl chloride	<0.428	U	50.0	45.67		ug/L		91	60 - 140
Xylenes, Total	<1.24	U	100	92.76		ug/L		93	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.04647		mg/L		93	75 - 125
o-Xylene	<0.000502	U	0.0500	0.04629		mg/L		93	75 - 125
Surrogate	%Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	95		63 - 144						
4-Bromofluorobenzene (Surr)	98		74 - 124						
Dibromofluoromethane (Surr)	101		75 - 131						
Toluene-d8 (Surr)	98		80 - 120						

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-131915/1-A

Matrix: Water

Analysis Batch: 131978

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 131915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.150	U	0.571	0.150	ug/L		11/20/23 12:55	11/21/23 04:42	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	74		37 - 133				11/20/23 12:55	11/21/23 04:42	1

Lab Sample ID: LCS 860-131915/2-A

Matrix: Water

Analysis Batch: 131978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 131915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.86	0.7802		ug/L		27	27 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
2,4,6-Tribromophenol (Surr)	111		35 - 130				
2-Fluorophenol (Surr)	53		19 - 120				
2-Fluorobiphenyl	124		43 - 130				
Nitrobenzene-d5 (Surr)	143	S1+	37 - 133				
Phenol-d5 (Surr)	40		8 - 124				
p-Terphenyl-d14 (Surr)	100		47 - 130				

Lab Sample ID: LCSD 860-131915/3-A

Matrix: Water

Analysis Batch: 131978

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 131915

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.86	0.7714		ug/L		27	27 - 130	1	30
Surrogate	%Recovery	LCSD Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	98		35 - 130						

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-131915/3-A

Matrix: Water

Analysis Batch: 131978

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 131915

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorophenol (Surr)	50		19 - 120
2-Fluorobiphenyl	109		43 - 130
Nitrobenzene-d5 (Surr)	119		37 - 133
Phenol-d5 (Surr)	38		8 - 124
p-Terphenyl-d14 (Surr)	96		47 - 130

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 860-132037/1-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/22/23 14:27	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/21/23 07:40	11/22/23 14:27	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/21/23 07:40	11/22/23 14:27	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/21/23 07:40	11/22/23 14:27	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/21/23 07:40	11/22/23 14:27	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/21/23 07:40	11/22/23 14:27	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/21/23 07:40	11/22/23 14:27	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/21/23 07:40	11/22/23 14:27	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/21/23 07:40	11/22/23 14:27	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/22/23 14:27	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/21/23 07:40	11/22/23 14:27	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/21/23 07:40	11/22/23 14:27	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/21/23 07:40	11/22/23 14:27	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/21/23 07:40	11/22/23 14:27	1
3,3'-Dimethylbenzidine	<0.444	U	8.00	0.444	ug/L		11/21/23 07:40	11/22/23 14:27	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/21/23 07:40	11/22/23 14:27	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/21/23 07:40	11/22/23 14:27	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/21/23 07:40	11/22/23 14:27	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-132037/1-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/21/23 07:40	11/22/23 14:27	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/21/23 07:40	11/22/23 14:27	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/21/23 07:40	11/22/23 14:27	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/21/23 07:40	11/22/23 14:27	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/21/23 07:40	11/22/23 14:27	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/21/23 07:40	11/22/23 14:27	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/21/23 07:40	11/22/23 14:27	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/21/23 07:40	11/22/23 14:27	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/21/23 07:40	11/22/23 14:27	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/21/23 07:40	11/22/23 14:27	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/21/23 07:40	11/22/23 14:27	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/21/23 07:40	11/22/23 14:27	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/21/23 07:40	11/22/23 14:27	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/21/23 07:40	11/22/23 14:27	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/22/23 14:27	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/22/23 14:27	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/22/23 14:27	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/21/23 07:40	11/22/23 14:27	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/22/23 14:27	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/21/23 07:40	11/22/23 14:27	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/21/23 07:40	11/22/23 14:27	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/21/23 07:40	11/22/23 14:27	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/21/23 07:40	11/22/23 14:27	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/21/23 07:40	11/22/23 14:27	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/21/23 07:40	11/22/23 14:27	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/22/23 14:27	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/22/23 14:27	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/22/23 14:27	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/21/23 07:40	11/22/23 14:27	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/21/23 07:40	11/22/23 14:27	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/21/23 07:40	11/22/23 14:27	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/21/23 07:40	11/22/23 14:27	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/21/23 07:40	11/22/23 14:27	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/21/23 07:40	11/22/23 14:27	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/21/23 07:40	11/22/23 14:27	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/21/23 07:40	11/22/23 14:27	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/21/23 07:40	11/22/23 14:27	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/22/23 14:27	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/21/23 07:40	11/22/23 14:27	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/21/23 07:40	11/22/23 14:27	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/21/23 07:40	11/22/23 14:27	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/21/23 07:40	11/22/23 14:27	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/22/23 14:27	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/21/23 07:40	11/22/23 14:27	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/21/23 07:40	11/22/23 14:27	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/21/23 07:40	11/22/23 14:27	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/21/23 07:40	11/22/23 14:27	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/21/23 07:40	11/22/23 14:27	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/21/23 07:40	11/22/23 14:27	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-132037/1-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/22/23 14:27	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/21/23 07:40	11/22/23 14:27	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/21/23 07:40	11/22/23 14:27	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/21/23 07:40	11/22/23 14:27	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/21/23 07:40	11/22/23 14:27	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/21/23 07:40	11/22/23 14:27	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/21/23 07:40	11/22/23 14:27	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/22/23 14:27	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/21/23 07:40	11/22/23 14:27	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/21/23 07:40	11/22/23 14:27	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/21/23 07:40	11/22/23 14:27	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/21/23 07:40	11/22/23 14:27	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/21/23 07:40	11/22/23 14:27	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/21/23 07:40	11/22/23 14:27	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/21/23 07:40	11/22/23 14:27	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/21/23 07:40	11/22/23 14:27	1
p-Phenylene diamine	<10.0	U	10.0	10.0	ug/L		11/21/23 07:40	11/22/23 14:27	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/21/23 07:40	11/22/23 14:27	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/21/23 07:40	11/22/23 14:27	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/21/23 07:40	11/22/23 14:27	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/21/23 07:40	11/22/23 14:27	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/21/23 07:40	11/22/23 14:27	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/21/23 07:40	11/22/23 14:27	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/21/23 07:40	11/22/23 14:27	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/21/23 07:40	11/22/23 14:27	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/21/23 07:40	11/22/23 14:27	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/21/23 07:40	11/22/23 14:27	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/21/23 07:40	11/22/23 14:27	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/21/23 07:40	11/22/23 14:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	50		31 - 132	11/21/23 07:40	11/22/23 14:27	1
2-Fluorobiphenyl	53		40 - 130	11/21/23 07:40	11/22/23 14:27	1
2-Fluorophenol (Surr)	39		21 - 114	11/21/23 07:40	11/22/23 14:27	1
Nitrobenzene-d5 (Surr)	56		37 - 130	11/21/23 07:40	11/22/23 14:27	1
Phenol-d5 (Surr)	22		16 - 117	11/21/23 07:40	11/22/23 14:27	1
p-Terphenyl-d14	99		20 - 141	11/21/23 07:40	11/22/23 14:27	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-132037/2-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	20.0	11.60		ug/L		58	41 - 117
1,2,4,5-Tetrachlorobenzene	20.0	10.58		ug/L		53	39 - 120
1,2,4-Trichlorobenzene	20.0	11.02		ug/L		55	34 - 117
1,2-Dichlorobenzene	20.0	11.70		ug/L		59	38 - 111
1,3,5-Trinitrobenzene	20.0	20.04		ug/L		100	35 - 128
1,3-Dichlorobenzene	20.0	11.44		ug/L		57	37 - 111
1,3-Dinitrobenzene	20.0	13.32		ug/L		67	36 - 131
1,4-Dichlorobenzene	20.0	11.12		ug/L		56	37 - 111
1,4-Naphthoquinone	20.0	12.75		ug/L		64	10 - 150
1-Naphthylamine	20.0	10.96		ug/L		55	40 - 120
2,2'-oxybis[1-chloropropane]	20.0	11.25		ug/L		56	10 - 150
2,3,4,6-Tetrachlorophenol	20.0	13.24		ug/L		66	33 - 132
2,4,5-Trichlorophenol	20.0	12.84		ug/L		64	39 - 125
2,4,6-Trichlorophenol	20.0	12.53		ug/L		63	42 - 125
2,4-Dichlorophenol	20.0	10.89		ug/L		54	38 - 120
2,4-Dimethylphenol	20.0	14.90		ug/L		74	39 - 117
2,4-Dinitrophenol	20.0	12.90		ug/L		64	13 - 152
2,4-Dinitrotoluene	20.0	15.19		ug/L		76	41 - 128
2,6-Dichlorophenol	20.0	10.89		ug/L		54	42 - 118
2,6-Dinitrotoluene	20.0	13.30		ug/L		66	42 - 127
2-Acetylaminofluorene	20.0	19.65		ug/L		98	40 - 130
2-Chloronaphthalene	20.0	10.82		ug/L		54	40 - 118
2-Chlorophenol	20.0	11.01		ug/L		55	41 - 108
2-Methylnaphthalene	20.0	11.97		ug/L		60	37 - 112
2-Methylphenol	20.0	10.36		ug/L		52	36 - 125
2-Naphthylamine	20.0	9.512		ug/L		48	40 - 120
2-Nitroaniline	20.0	10.40		ug/L		52	34 - 126
2-Nitrophenol	20.0	12.06		ug/L		60	38 - 125
2-Picoline	20.0	1.676	J *	ug/L		8	11 - 107
2-Toluidine	20.0	8.666		ug/L		43	38 - 124
3 & 4 Methylphenol	20.0	9.423		ug/L		47	35 - 116
3,3'-Dichlorobenzidine	20.0	17.80		ug/L		89	29 - 141
3,3'-Dimethylbenzidine	20.0	1.552	J *	ug/L		8	40 - 130
3-Methylcholanthrene	20.0	19.29		ug/L		96	20 - 130
3-Nitroaniline	20.0	12.91		ug/L		65	42 - 123
4,6-Dinitro-2-methylphenol	20.0	15.48		ug/L		77	12 - 157
4-Aminobiphenyl	20.0	11.63		ug/L		58	20 - 130
4-Bromophenyl phenyl ether	20.0	12.33		ug/L		62	40 - 126
4-Chloro-3-methylphenol	20.0	12.74		ug/L		64	40 - 119
4-Chloroaniline	20.0	9.190		ug/L		46	39 - 111
4-Chlorophenyl phenyl ether	20.0	12.49		ug/L		62	40 - 122
4-Nitroaniline	20.0	14.23		ug/L		71	42 - 125
4-Nitroquinoline-1-oxide	20.0	16.42		ug/L		82	20 - 130
7,12-Dimethylbenz(a)anthracene	20.0	16.11		ug/L		81	40 - 120
Acenaphthene	20.0	12.59		ug/L		63	41 - 116
Acenaphthylene	20.0	12.66		ug/L		63	41 - 118
Acetophenone	20.0	10.78		ug/L		54	23 - 175
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0	

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-132037/2-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	20.0	5.809	*-	ug/L		29	31 - 100
Anthracene	20.0	14.09		ug/L		70	39 - 127
Benzo[a]anthracene	20.0	17.84		ug/L		89	40 - 129
Benzo[a]pyrene	20.0	19.08		ug/L		95	36 - 141
Benzo[b]fluoranthene	20.0	18.37		ug/L		92	34 - 139
Benzo[g,h,i]perylene	20.0	21.85		ug/L		109	32 - 141
Benzo[k]fluoranthene	20.0	17.21		ug/L		86	31 - 139
Benzyl alcohol	20.0	11.71		ug/L		59	37 - 102
Bis(2-chloroethoxy)methane	20.0	10.67		ug/L		53	36 - 113
Bis(2-chloroethyl)ether	20.0	11.15		ug/L		56	38 - 111
Bis(2-ethylhexyl) phthalate	20.0	18.15		ug/L		91	44 - 136
Butyl benzyl phthalate	20.0	18.84		ug/L		94	44 - 133
Chrysene	20.0	18.19		ug/L		91	41 - 124
Dibenz(a,h)anthracene	20.0	21.87		ug/L		109	35 - 143
Dibenzofuran	20.0	12.16		ug/L		61	41 - 119
Diethyl phthalate	20.0	13.07		ug/L		65	41 - 125
Dimethyl phthalate	20.0	12.85		ug/L		64	42 - 123
Di-n-butyl phthalate	20.0	18.59		ug/L		93	41 - 133
Di-n-octyl phthalate	20.0	17.95		ug/L		90	34 - 145
Diphenyl ether	20.0	11.71		ug/L		59	40 - 130
Ethyl methanesulfonate	20.0	11.25		ug/L		56	40 - 127
Fluoranthene	20.0	18.24		ug/L		91	38 - 132
Fluorene	20.0	12.69		ug/L		63	41 - 121
Hexachlorobenzene	20.0	12.44		ug/L		62	39 - 128
Hexachlorobutadiene	20.0	11.28		ug/L		56	31 - 120
Hexachlorocyclopentadiene	20.0	12.03		ug/L		60	15 - 117
Hexachloroethane	20.0	10.73		ug/L		54	37 - 109
Hexachloropropene	20.0	11.10		ug/L		56	24 - 122
Indeno[1,2,3-cd]pyrene	20.0	21.92		ug/L		110	35 - 141
Isophorone	20.0	12.28		ug/L		61	40 - 115
Methyl methanesulfonate	20.0	10.43		ug/L		52	33 - 120
Naphthalene	20.0	11.41		ug/L		57	37 - 113
Nitrobenzene	20.0	11.27		ug/L		56	37 - 114
N-Nitro-o-toluidine	20.0	14.15		ug/L		71	40 - 120
N-Nitrosodiethylamine	20.0	12.21		ug/L		61	42 - 115
N-Nitrosodimethylamine	20.0	9.955		ug/L		50	28 - 126
N-Nitrosodi-n-butylamine	20.0	9.874		ug/L		49	34 - 122
N-Nitrosodi-n-propylamine	20.0	11.78		ug/L		59	38 - 117
N-Nitrosodiphenylamine	20.0	13.45		ug/L		67	40 - 127
N-Nitrosomethylethylamine	20.0	11.71		ug/L		59	41 - 108
N-Nitrosomorpholine	20.0	11.96		ug/L		60	32 - 115
N-Nitrosopiperidine	20.0	11.70		ug/L		58	39 - 115
N-Nitrosopyrrolidine	20.0	10.84		ug/L		54	36 - 121
p-Dimethylamino azobenzene	20.0	15.42		ug/L		77	38 - 124
Pentachlorobenzene	20.0	11.10		ug/L		55	40 - 123
Pentachloronitrobenzene	20.0	15.00		ug/L		75	40 - 120
Pentachlorophenol	20.0	14.63		ug/L		73	10 - 137
Phenacetin	20.0	16.87		ug/L		84	20 - 130
Phenanthrene	20.0	13.44		ug/L		67	39 - 126

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-132037/2-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	20.0	6.728		ug/L		34	15 - 106
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150
Pronamide	20.0	18.44		ug/L		92	25 - 120
Pyrene	20.0	15.15		ug/L		76	40 - 130
Pyridine	20.0	2.186	*-	ug/L		11	16 - 135
Safrole, Total	20.0	11.85		ug/L		59	40 - 120
Aramite Peak 2	10.0	9.624		ug/L		96	35 - 130
Isosafrole Peak 1	3.20	<2.46	U	ug/L		62	40 - 120
Diallate Peak 2	5.20	3.321	J	ug/L		64	38 - 130
Isosafrole Peak 2	16.8	9.982		ug/L		59	40 - 120
Diallate Peak 1	14.8	9.569		ug/L		65	38 - 130
Aramite Peak 1	10.0	9.715		ug/L		97	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	72		31 - 132
2-Fluorobiphenyl	70		40 - 130
2-Fluorophenol (Surr)	50		21 - 114
Nitrobenzene-d5 (Surr)	65		37 - 130
Phenol-d5 (Surr)	38		16 - 117
p-Terphenyl-d14	109		20 - 141

Lab Sample ID: LCSD 860-132037/3-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132037

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	20.0	11.57		ug/L		58	41 - 117	0	30
1,2,4,5-Tetrachlorobenzene	20.0	11.05		ug/L		55	39 - 120	4	30
1,2,4-Trichlorobenzene	20.0	11.36		ug/L		57	34 - 117	3	30
1,2-Dichlorobenzene	20.0	11.89		ug/L		59	38 - 111	2	30
1,3,5-Trinitrobenzene	20.0	20.09		ug/L		100	35 - 128	0	30
1,3-Dichlorobenzene	20.0	11.83		ug/L		59	37 - 111	3	30
1,3-Dinitrobenzene	20.0	11.64		ug/L		58	36 - 131	13	30
1,4-Dichlorobenzene	20.0	11.52		ug/L		58	37 - 111	3	30
1,4-Naphthoquinone	20.0	12.07		ug/L		60	10 - 150	5	30
1-Naphthylamine	20.0	9.762		ug/L		49	40 - 120	12	30
2,2'-oxybis[1-chloropropane]	20.0	11.47		ug/L		57	10 - 150	2	30
2,3,4,6-Tetrachlorophenol	20.0	12.58		ug/L		63	33 - 132	5	30
2,4,5-Trichlorophenol	20.0	12.52		ug/L		63	39 - 125	3	30
2,4,6-Trichlorophenol	20.0	12.36		ug/L		62	42 - 125	1	30
2,4-Dichlorophenol	20.0	11.27		ug/L		56	38 - 120	3	30
2,4-Dimethylphenol	20.0	15.06		ug/L		75	39 - 117	1	30
2,4-Dinitrophenol	20.0	12.73		ug/L		64	13 - 152	1	30
2,4-Dinitrotoluene	20.0	15.15		ug/L		76	41 - 128	0	30
2,6-Dichlorophenol	20.0	11.58		ug/L		58	42 - 118	6	30
2,6-Dinitrotoluene	20.0	12.72		ug/L		64	42 - 127	4	30
2-Acetylaminofluorene	20.0	20.13		ug/L		101	40 - 130	2	30
2-Chloronaphthalene	20.0	10.93		ug/L		55	40 - 118	1	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-132037/3-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132037

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chlorophenol	20.0	11.63		ug/L		58	41 - 108	6	30
2-Methylnaphthalene	20.0	12.11		ug/L		61	37 - 112	1	30
2-Methylphenol	20.0	11.21		ug/L		56	36 - 125	8	30
2-Naphthylamine	20.0	8.477		ug/L		42	40 - 120	12	30
2-Nitroaniline	20.0	10.38		ug/L		52	34 - 126	0	30
2-Nitrophenol	20.0	12.16		ug/L		61	38 - 125	1	30
2-Picoline	20.0	3.293	*1	ug/L		16	11 - 107	65	30
2-Toluidine	20.0	8.374		ug/L		42	38 - 124	3	30
3 & 4 Methylphenol	20.0	9.673		ug/L		48	35 - 116	3	30
3,3'-Dichlorobenzidine	20.0	18.33		ug/L		92	29 - 141	3	30
3,3'-Dimethylbenzidine	20.0	2.079	J *	ug/L		10	40 - 130	29	30
3-Methylcholanthrene	20.0	19.95		ug/L		100	20 - 130	3	30
3-Nitroaniline	20.0	12.23		ug/L		61	42 - 123	5	30
4,6-Dinitro-2-methylphenol	20.0	15.50		ug/L		77	12 - 157	0	30
4-Aminobiphenyl	20.0	11.72		ug/L		59	20 - 130	1	30
4-Bromophenyl phenyl ether	20.0	12.02		ug/L		60	40 - 126	3	30
4-Chloro-3-methylphenol	20.0	11.51		ug/L		58	40 - 119	10	30
4-Chloroaniline	20.0	9.257		ug/L		46	39 - 111	1	30
4-Chlorophenyl phenyl ether	20.0	11.91		ug/L		60	40 - 122	5	30
4-Nitroaniline	20.0	12.70		ug/L		64	42 - 125	11	30
4-Nitroquinoline-1-oxide	20.0	17.13		ug/L		86	20 - 130	4	30
7,12-Dimethylbenz(a)anthracene	20.0	16.32		ug/L		82	40 - 120	1	30
Acenaphthene	20.0	12.19		ug/L		61	41 - 116	3	30
Acenaphthylene	20.0	12.55		ug/L		63	41 - 118	1	30
Acetophenone	20.0	11.05		ug/L		55	23 - 175	2	30
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0		NC	30
Aniline	20.0	6.446		ug/L		32	31 - 100	10	30
Anthracene	20.0	13.99		ug/L		70	39 - 127	1	30
Benzo[a]anthracene	20.0	18.38		ug/L		92	40 - 129	3	30
Benzo[a]pyrene	20.0	19.30		ug/L		97	36 - 141	1	30
Benzo[b]fluoranthene	20.0	18.95		ug/L		95	34 - 139	3	30
Benzo[g,h,i]perylene	20.0	22.45		ug/L		112	32 - 141	3	30
Benzo[k]fluoranthene	20.0	17.44		ug/L		87	31 - 139	1	30
Benzyl alcohol	20.0	12.42		ug/L		62	37 - 102	6	30
Bis(2-chloroethoxy)methane	20.0	10.90		ug/L		54	36 - 113	2	30
Bis(2-chloroethyl)ether	20.0	11.05		ug/L		55	38 - 111	1	30
Bis(2-ethylhexyl) phthalate	20.0	18.23		ug/L		91	44 - 136	0	30
Butyl benzyl phthalate	20.0	19.26		ug/L		96	44 - 133	2	30
Chrysene	20.0	18.57		ug/L		93	41 - 124	2	30
Dibenz(a,h)anthracene	20.0	22.59		ug/L		113	35 - 143	3	30
Dibenzofuran	20.0	11.84		ug/L		59	41 - 119	3	30
Diethyl phthalate	20.0	12.67		ug/L		63	41 - 125	3	30
Dimethyl phthalate	20.0	12.36		ug/L		62	42 - 123	4	30
Di-n-butyl phthalate	20.0	18.62		ug/L		93	41 - 133	0	30
Di-n-octyl phthalate	20.0	18.30		ug/L		91	34 - 145	2	30
Diphenyl ether	20.0	11.26		ug/L		56	40 - 130	4	30
Ethyl methanesulfonate	20.0	11.33		ug/L		57	40 - 127	1	30
Fluoranthene	20.0	18.33		ug/L		92	38 - 132	1	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-132037/3-A

Matrix: Water

Analysis Batch: 132264

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132037

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluorene	20.0	12.26		ug/L		61	41 - 121	3	30
Hexachlorobenzene	20.0	11.86		ug/L		59	39 - 128	5	30
Hexachlorobutadiene	20.0	11.95		ug/L		60	31 - 120	6	30
Hexachlorocyclopentadiene	20.0	12.55		ug/L		63	15 - 117	4	30
Hexachloroethane	20.0	11.12		ug/L		56	37 - 109	4	30
Hexachloropropene	20.0	11.42		ug/L		57	24 - 122	3	30
Indeno[1,2,3-cd]pyrene	20.0	22.22		ug/L		111	35 - 141	1	30
Isophorone	20.0	12.60		ug/L		63	40 - 115	3	30
Methyl methanesulfonate	20.0	10.34		ug/L		52	33 - 120	1	30
Naphthalene	20.0	11.51		ug/L		58	37 - 113	1	30
Nitrobenzene	20.0	11.47		ug/L		57	37 - 114	2	30
N-Nitro-o-toluidine	20.0	12.86		ug/L		64	40 - 120	10	30
N-Nitrosodiethylamine	20.0	12.33		ug/L		62	42 - 115	1	30
N-Nitrosodimethylamine	20.0	9.999		ug/L		50	28 - 126	0	30
N-Nitrosodi-n-butylamine	20.0	10.06		ug/L		50	34 - 122	2	30
N-Nitrosodi-n-propylamine	20.0	12.20		ug/L		61	38 - 117	4	30
N-Nitrosodiphenylamine	20.0	13.34		ug/L		67	40 - 127	1	30
N-Nitrosomethylethylamine	20.0	11.93		ug/L		60	41 - 108	2	30
N-Nitrosomorpholine	20.0	11.95		ug/L		60	32 - 115	0	30
N-Nitrosopiperidine	20.0	12.53		ug/L		63	39 - 115	7	30
N-Nitrosopyrrolidine	20.0	11.19		ug/L		56	36 - 121	3	30
p-Dimethylamino azobenzene	20.0	15.71		ug/L		79	38 - 124	2	30
Pentachlorobenzene	20.0	11.11		ug/L		56	40 - 123	0	30
Pentachloronitrobenzene	20.0	13.88		ug/L		69	40 - 120	8	30
Pentachlorophenol	20.0	14.45		ug/L		72	10 - 137	1	30
Phenacetin	20.0	17.34		ug/L		87	20 - 130	3	30
Phenanthrene	20.0	13.11		ug/L		66	39 - 126	3	30
Phenol	20.0	6.960		ug/L		35	15 - 106	3	30
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150	NC	30
Pronamide	20.0	18.50		ug/L		93	25 - 120	0	30
Pyrene	20.0	15.27		ug/L		76	40 - 130	1	30
Pyridine	20.0	3.703	*1	ug/L		19	16 - 135	51	30
Safrole, Total	20.0	11.99		ug/L		60	40 - 120	1	30
Aramite Peak 2	10.0	9.992		ug/L		100	35 - 130	4	30
Isosafrole Peak 1	3.20	<2.46	U	ug/L		57	40 - 120	8	30
Diallate Peak 2	5.20	3.272	J	ug/L		63	38 - 130	1	30
Isosafrole Peak 2	16.8	9.788		ug/L		58	40 - 120	2	30
Diallate Peak 1	14.8	9.879		ug/L		67	38 - 130	3	30
Aramite Peak 1	10.0	10.28		ug/L		103	35 - 130	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	148	S1+	31 - 132
2-Fluorobiphenyl	137	S1+	40 - 130
2-Fluorophenol (Surr)	104		21 - 114
Nitrobenzene-d5 (Surr)	132	S1+	37 - 130
Phenol-d5 (Surr)	79		16 - 117
p-Terphenyl-d14	221	S1+	20 - 141

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

GC/MS VOA

Analysis Batch: 131391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61633-1	TB-09 (111423)	Total/NA	Water	8260D	
860-61633-2	MW-75	Total/NA	Water	8260D	
860-61633-3	MW-54	Total/NA	Water	8260D	
860-61633-4	RB-04	Total/NA	Water	8260D	
860-61633-9	FB-04	Total/NA	Water	8260D	
MB 860-131391/9	Method Blank	Total/NA	Water	8260D	
LCS 860-131391/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-131391/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61115-C-1 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 131527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61633-5	MW-73	Total/NA	Water	8260D	
860-61633-6	MW-52S	Total/NA	Water	8260D	
860-61633-7	MW-50	Total/NA	Water	8260D	
860-61633-8	DUPE-04	Total/NA	Water	8260D	
860-61633-10	MW-52D	Total/NA	Water	8260D	
MB 860-131527/8	Method Blank	Total/NA	Water	8260D	
LCS 860-131527/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-131527/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61702-D-10 MS	Matrix Spike	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 131915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61633-2	MW-75	Total/NA	Water	3511	
860-61633-3	MW-54	Total/NA	Water	3511	
860-61633-4	RB-04	Total/NA	Water	3511	
860-61633-5	MW-73	Total/NA	Water	3511	
860-61633-6	MW-52S	Total/NA	Water	3511	
860-61633-7	MW-50	Total/NA	Water	3511	
860-61633-8	DUPE-04	Total/NA	Water	3511	
860-61633-10	MW-52D	Total/NA	Water	3511	
MB 860-131915/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-131915/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-131915/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 131978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61633-2	MW-75	Total/NA	Water	8270E	131915
860-61633-3	MW-54	Total/NA	Water	8270E	131915
860-61633-4	RB-04	Total/NA	Water	8270E	131915
860-61633-5	MW-73	Total/NA	Water	8270E	131915
860-61633-6	MW-52S	Total/NA	Water	8270E	131915
860-61633-7	MW-50	Total/NA	Water	8270E	131915
860-61633-8	DUPE-04	Total/NA	Water	8270E	131915
860-61633-10	MW-52D	Total/NA	Water	8270E	131915
MB 860-131915/1-A	Method Blank	Total/NA	Water	8270E	131915
LCS 860-131915/2-A	Lab Control Sample	Total/NA	Water	8270E	131915
LCSD 860-131915/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	131915

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QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

GC/MS Semi VOA

Prep Batch: 132037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61633-2	MW-75	Total/NA	Water	3510C	
860-61633-3	MW-54	Total/NA	Water	3510C	
860-61633-4	RB-04	Total/NA	Water	3510C	
860-61633-5	MW-73	Total/NA	Water	3510C	
860-61633-5 - DL	MW-73	Total/NA	Water	3510C	
860-61633-6	MW-52S	Total/NA	Water	3510C	
860-61633-6 - DL	MW-52S	Total/NA	Water	3510C	
860-61633-7 - DL2	MW-50	Total/NA	Water	3510C	
860-61633-7 - DL	MW-50	Total/NA	Water	3510C	
860-61633-7	MW-50	Total/NA	Water	3510C	
860-61633-8	DUPE-04	Total/NA	Water	3510C	
860-61633-8 - DL	DUPE-04	Total/NA	Water	3510C	
860-61633-10	MW-52D	Total/NA	Water	3510C	
860-61633-10 - DL	MW-52D	Total/NA	Water	3510C	
MB 860-132037/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-132037/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-132037/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 132264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-132037/1-A	Method Blank	Total/NA	Water	8270E LL	132037
LCS 860-132037/2-A	Lab Control Sample	Total/NA	Water	8270E LL	132037
LCSD 860-132037/3-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	132037

Analysis Batch: 132390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61633-2	MW-75	Total/NA	Water	8270E LL	132037
860-61633-3	MW-54	Total/NA	Water	8270E LL	132037
860-61633-4	RB-04	Total/NA	Water	8270E LL	132037
860-61633-5	MW-73	Total/NA	Water	8270E LL	132037
860-61633-6	MW-52S	Total/NA	Water	8270E LL	132037
860-61633-8	DUPE-04	Total/NA	Water	8270E LL	132037
860-61633-10	MW-52D	Total/NA	Water	8270E LL	132037

Analysis Batch: 132535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61633-5 - DL	MW-73	Total/NA	Water	8270E LL	132037
860-61633-6 - DL	MW-52S	Total/NA	Water	8270E LL	132037
860-61633-7	MW-50	Total/NA	Water	8270E LL	132037
860-61633-7 - DL	MW-50	Total/NA	Water	8270E LL	132037
860-61633-8 - DL	DUPE-04	Total/NA	Water	8270E LL	132037
860-61633-10 - DL	MW-52D	Total/NA	Water	8270E LL	132037

Analysis Batch: 132731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61633-7 - DL2	MW-50	Total/NA	Water	8270E LL	132037

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: TB-09 (111423)

Lab Sample ID: 860-61633-1

Date Collected: 11/14/23 00:00

Matrix: Water

Date Received: 11/15/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131391	11/16/23 18:08	A1S	EET HOU

Client Sample ID: MW-75

Lab Sample ID: 860-61633-2

Date Collected: 11/14/23 08:18

Matrix: Water

Date Received: 11/15/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131391	11/16/23 22:14	A1S	EET HOU
Total/NA	Prep	3511			30.6 mL	2 mL	131915	11/20/23 12:55	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131978	11/21/23 06:11	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132390	11/23/23 00:00	PXS	EET HOU

Client Sample ID: MW-54

Lab Sample ID: 860-61633-3

Date Collected: 11/14/23 08:30

Matrix: Water

Date Received: 11/15/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131391	11/17/23 00:38	A1S	EET HOU
Total/NA	Prep	3511			30 mL	2 mL	131915	11/20/23 12:55	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131978	11/21/23 06:41	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132390	11/23/23 00:21	PXS	EET HOU

Client Sample ID: RB-04

Lab Sample ID: 860-61633-4

Date Collected: 11/14/23 08:50

Matrix: Water

Date Received: 11/15/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131391	11/16/23 22:35	A1S	EET HOU
Total/NA	Prep	3511			31.1 mL	2 mL	131915	11/20/23 12:55	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131978	11/21/23 07:10	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132390	11/23/23 00:42	PXS	EET HOU

Client Sample ID: MW-73

Lab Sample ID: 860-61633-5

Date Collected: 11/14/23 09:17

Matrix: Water

Date Received: 11/15/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		500	5 mL	5 mL	131527	11/17/23 18:51	AN	EET HOU
Total/NA	Prep	3511			30.5 mL	2 mL	131915	11/20/23 12:55	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131978	11/21/23 07:40	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL		10	1 mL	1 mL	132390	11/22/23 23:18	PXS	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: MW-73

Date Collected: 11/14/23 09:17

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61633-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	200	1 mL	1 mL	132535	11/27/23 18:36	EM	EET HOU

Client Sample ID: MW-52S

Date Collected: 11/14/23 09:53

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61633-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131527	11/17/23 17:29	AN	EET HOU
Total/NA	Prep	3511			29.6 mL	2 mL	131915	11/20/23 12:55	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131978	11/21/23 08:09	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132390	11/23/23 01:03	PXS	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	20	1 mL	1 mL	132535	11/27/23 18:57	EM	EET HOU

Client Sample ID: MW-50

Date Collected: 11/14/23 10:18

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61633-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	5 mL	5 mL	131527	11/17/23 18:10	AN	EET HOU
Total/NA	Prep	3511			29.7 mL	2 mL	131915	11/20/23 12:55	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131978	11/21/23 08:39	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL		5	1 mL	1 mL	132535	11/27/23 19:38	EM	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	50	1 mL	1 mL	132535	11/27/23 19:59	EM	EET HOU
Total/NA	Prep	3510C	DL2		250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL	DL2	500	1 mL	1 mL	132731	11/28/23 11:13	T1S	EET HOU

Client Sample ID: DUPE-04

Date Collected: 11/14/23 00:00

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61633-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	5 mL	5 mL	131527	11/17/23 18:31	AN	EET HOU
Total/NA	Prep	3511			28.9 mL	2 mL	131915	11/20/23 12:55	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131978	11/21/23 09:08	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL		10	1 mL	1 mL	132390	11/22/23 22:57	PXS	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	200	1 mL	1 mL	132535	11/27/23 18:15	EM	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Client Sample ID: FB-04

Date Collected: 11/14/23 10:18

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61633-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131391	11/16/23 18:29	A1S	EET HOU

Client Sample ID: MW-52D

Date Collected: 11/14/23 10:54

Date Received: 11/15/23 09:50

Lab Sample ID: 860-61633-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131527	11/17/23 17:50	AN	EET HOU
Total/NA	Prep	3511			27.8 mL	2 mL	131915	11/20/23 12:55	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131978	11/21/23 09:37	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132390	11/23/23 01:44	PXS	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	132037	11/21/23 07:40	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	20	1 mL	1 mL	132535	11/27/23 19:17	EM	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61633-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-61633-1	TB-09 (111423)	Water	11/14/23 00:00	11/15/23 09:50
860-61633-2	MW-75	Water	11/14/23 08:18	11/15/23 09:50
860-61633-3	MW-54	Water	11/14/23 08:30	11/15/23 09:50
860-61633-4	RB-04	Water	11/14/23 08:50	11/15/23 09:50
860-61633-5	MW-73	Water	11/14/23 09:17	11/15/23 09:50
860-61633-6	MW-52S	Water	11/14/23 09:53	11/15/23 09:50
860-61633-7	MW-50	Water	11/14/23 10:18	11/15/23 09:50
860-61633-8	DUPE-04	Water	11/14/23 00:00	11/15/23 09:50
860-61633-9	FB-04	Water	11/14/23 10:18	11/15/23 09:50
860-61633-10	MW-52D	Water	11/14/23 10:54	11/15/23 09:50

[illegible]

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-61633-1

Login Number: 61633

List Number: 1

Creator: Rubio, Yuri

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

ANALYTICAL REPORT

PREPARED FOR

Attn: Timothy Hassett
Ashland LLC
Ashland Hercules Research Center
500 Hercules Rd Bldg 8145
Wilmington, Delaware 19808

Generated 11/30/2023 6:53:07 PM

JOB DESCRIPTION

Hercules Hattiesburg, MS

JOB NUMBER

860-61847-1

Eurofins Houston

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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11/30/2023 6:53:07 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Definitions/Glossary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Eurofins Houston

Definitions/Glossary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

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Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Job ID: 860-61847-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-61847-1

Receipt

The samples were received on 11/17/2023 9:23 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.9° C.

GC/MS VOA

Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-131746 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260D: Due to the high concentration of Carbon tetrachloride, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-131725 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-33-D (860-61847-2), MW-28-S (860-61847-6), MW-29-D (860-61847-7), MW-28-D (860-61847-9), DUP-02 (860-61847-10) and MW-26D (860-61847-11). Elevated reporting limits (RLs) are provided.

Methods 8260C, 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-30-D (860-61847-3), (400-246535-A-9) and (400-246535-A-9 MS). Elevated reporting limits (RLs) are provided.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-131898 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-29-S (860-61847-5), MW-28-D (860-61847-9), DUP-02 (860-61847-10), MW-26D (860-61847-11) and (860-61847-E-5 MS). Elevated reporting limits (RLs) are provided.

Methods 8260C, 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-29-S (860-61847-5) and (860-61847-E-5 MS). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270E LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-132355 and analytical batch 860-132390 recovered outside control limits for the following analyte(s): 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, Aniline, p-Phenylene diamine and Pyridine. 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, Aniline, p-Phenylene diamine and Pyridine have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method 8270E LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-132355 and analytical batch 860-132390 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270E LL: The method blank for preparation batch 860-132355 contained Pyridine above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Methods 8270D LL, 8270E LL: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 860-132355 and analytical batch 860-132390 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Diphenyl ether in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Job ID: 860-61847-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Method 8270E LL: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-33-D (860-61847-2), MW-30-D (860-61847-3), MW-28-S (860-61847-6), MW-29-D (860-61847-7), MW-28-D (860-61847-9), DUP-02 (860-61847-10) and MW-26D (860-61847-11). Elevated reporting limits (RLs) are provided.

Method 8270E LL: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW-30-D (860-61847-3). These results have been reported and qualified.

Method 8270E LL: The following samples required a dilution due to the nature of the sample matrix: MW-33-D (860-61847-2), MW-28-S (860-61847-6), MW-29-D (860-61847-7), MW-28-D (860-61847-9), DUP-02 (860-61847-10) and MW-26D (860-61847-11). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-132655 and analytical batch 860-132899 recovered outside control limits for the following analyte(s): 3,3'-Dimethylbenzidine and p-Phenylene diamine. 3,3'-Dimethylbenzidine and p-Phenylene diamine have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. <INCLUDE_IF_APPLICABLE> Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method 8270E LL: The following samples required a dilution due to the nature of the sample matrix: MW-28-S (860-61847-6), MW-29-D (860-61847-7), MW-28-D (860-61847-9), DUP-02 (860-61847-10) and MW-26D (860-61847-11). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E LL: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-28-S (860-61847-6), MW-29-D (860-61847-7), MW-28-D (860-61847-9), DUP-02 (860-61847-10) and MW-26D (860-61847-11). Elevated reporting limits (RLs) are provided.

Method 8270E LL: The following samples were re-prepared outside of preparation holding time due to method blank contamination in the first run : MW-33-D (860-61847-2), MW-30-D (860-61847-3), RB-02 (860-61847-4), MW-29-S (860-61847-5), MW-28-S (860-61847-6), MW-29-D (860-61847-7), MW-28-D (860-61847-9), DUP-02 (860-61847-10) and MW-26D (860-61847-11).

Methods 8270D LL, 8270E LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-132355 and analytical batch 860-132390 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270E LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-132655 and analytical batch 860-132899 recovered outside control limits for the following analyte(s): 3,3'-Dimethylbenzidine and p-Phenylene diamine. <3,3'-Dimethylbenzidine and p-Phenylene diamine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E LL: The following samples were re-prepared outside of preparation holding time due to method blank contaminated in the first extraction: MW-28-S (860-61847-6), MW-29-D (860-61847-7), MW-28-D (860-61847-9), DUP-02 (860-61847-10) and MW-26D (860-61847-11).

Method 8270E LL: The following samples required a dilution due to the nature of the sample matrix: MW-33-D (860-61847-2), MW-28-D (860-61847-9), DUP-02 (860-61847-10) and MW-26D (860-61847-11). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E LL: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-33-D (860-61847-2), MW-28-D (860-61847-9), DUP-02 (860-61847-10) and MW-26D (860-61847-11). Elevated reporting limits (RLs) are provided.

Method 8270E: The surrogate recovery for the laboratory control sample associated with preparation batch 860-131915 and analytical batch 860-131978 was outside the upper control limit.

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Job ID: 860-61847-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Method 8270E: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-28-D (860-61847-9) and MW-26D (860-61847-11). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: TB-12 (111523)

Lab Sample ID: 860-61847-1

No Detections.

Client Sample ID: MW-33-D

Lab Sample ID: 860-61847-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Cumene (isopropylbenzene)	0.681	J	1.00	0.592	ug/L			1	8260D	Total/NA
2-Methylnaphthalene	0.615	J	2.00	0.480	ug/L			1	8270E LL	Total/NA
Acenaphthene	0.845	J	2.00	0.208	ug/L			1	8270E LL	Total/NA
Dibenzofuran	3.29		2.00	0.336	ug/L			1	8270E LL	Total/NA
Di-n-butyl phthalate	0.803	J	2.00	0.800	ug/L			1	8270E LL	Total/NA
Fluorene	0.262	J	2.00	0.205	ug/L			1	8270E LL	Total/NA
Naphthalene	1.29	J	2.00	0.423	ug/L			1	8270E LL	Total/NA
Phenol	8.20		4.00	0.202	ug/L			1	8270E LL	Total/NA
Pyridine	1.26	J B *1	2.00	0.725	ug/L			1	8270E LL	Total/NA
1,1'-Biphenyl - DL	1080		40.0	8.57	ug/L			20	8270E LL	Total/NA
1,1'-Biphenyl - DL	1080	H	40.0	8.57	ug/L			20	8270E LL	Total/NA
Diphenyl ether - DL2	5860		1600	72.7	ug/L			200	8270E LL	Total/NA
Diphenyl ether - DL2	6310	H	1600	72.7	ug/L			200	8270E LL	Total/NA
1,1'-Biphenyl - RE	819	H E	2.00	0.428	ug/L			1	8270E LL	Total/NA
Acenaphthene - RE	0.833	J H	2.00	0.208	ug/L			1	8270E LL	Total/NA
Dibenzofuran - RE	3.36	H	2.00	0.336	ug/L			1	8270E LL	Total/NA
Diphenyl ether - RE	3100	H E	8.00	0.364	ug/L			1	8270E LL	Total/NA
Fluorene - RE	0.252	J H	2.00	0.205	ug/L			1	8270E LL	Total/NA
Naphthalene - RE	1.20	J H	2.00	0.423	ug/L			1	8270E LL	Total/NA
Phenanthrene - RE	0.240	J H	2.00	0.176	ug/L			1	8270E LL	Total/NA
Phenol - RE	11.8	H	4.00	0.202	ug/L			1	8270E LL	Total/NA

Client Sample ID: MW-30-D

Lab Sample ID: 860-61847-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzene	3.98		1.00	0.460	ug/L			1	8260D	Total/NA
Chlorobenzene	3.94		1.00	0.455	ug/L			1	8260D	Total/NA
Chloroform	23.1		1.00	0.464	ug/L			1	8260D	Total/NA
Carbon tetrachloride - DL	3410		250	44.8	ug/L			50	8260D	Total/NA
1,1'-Biphenyl	18.4		2.00	0.428	ug/L			1	8270E LL	Total/NA
1,1'-Biphenyl	18.7	H	2.00	0.428	ug/L			1	8270E LL	Total/NA
Phenol	0.351	J	4.00	0.202	ug/L			1	8270E LL	Total/NA
Pyridine	1.41	J B *1	2.00	0.725	ug/L			1	8270E LL	Total/NA
Diphenyl ether - DL	58.6		40.0	1.82	ug/L			5	8270E LL	Total/NA

Client Sample ID: RB-02

Lab Sample ID: 860-61847-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetophenone	0.247	J	4.00	0.225	ug/L			1	8270E LL	Total/NA
Pyridine	1.50	J B *1	2.00	0.725	ug/L			1	8270E LL	Total/NA
Diphenyl ether - RE	0.391	J H	8.00	0.364	ug/L			1	8270E LL	Total/NA

Client Sample ID: MW-29-S

Lab Sample ID: 860-61847-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloroform	20.6		1.00	0.464	ug/L			1	8260D	Total/NA
Carbon tetrachloride - DL	3080		250	44.8	ug/L			50	8260D	Total/NA
1,1'-Biphenyl	0.564	J	2.00	0.428	ug/L			1	8270E LL	Total/NA
Diphenyl ether	1.75	J	8.00	0.364	ug/L			1	8270E LL	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-S (Continued)

Lab Sample ID: 860-61847-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	1.37	J B *1	2.00	0.725	ug/L	1		8270E LL	Total/NA
Diphenyl ether - RE	0.808	J H	8.00	0.364	ug/L	1		8270E LL	Total/NA

Client Sample ID: MW-28-S

Lab Sample ID: 860-61847-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	857		500	230	ug/L	500		8260D	Total/NA
Carbon tetrachloride	64400		2500	448	ug/L	500		8260D	Total/NA
Chloroform	9470		500	232	ug/L	500		8260D	Total/NA
1,2-Dichlorobenzene	1.49	J	2.00	0.296	ug/L	1		8270E LL	Total/NA
1,4-Dichlorobenzene	2.18		2.00	0.428	ug/L	1		8270E LL	Total/NA
Acetophenone	1.50	J	4.00	0.225	ug/L	1		8270E LL	Total/NA
Dibenzofuran	1.20	J	2.00	0.336	ug/L	1		8270E LL	Total/NA
Hexachloroethane	2.70		2.00	0.140	ug/L	1		8270E LL	Total/NA
Naphthalene	5.32		2.00	0.423	ug/L	1		8270E LL	Total/NA
Phenol	45.9		4.00	0.202	ug/L	1		8270E LL	Total/NA
Pyridine	1.53	J B *1	2.00	0.725	ug/L	1		8270E LL	Total/NA
1,1'-Biphenyl - DL	725		100	21.4	ug/L	50		8270E LL	Total/NA
Diphenyl ether - DL	2700		400	18.2	ug/L	50		8270E LL	Total/NA
1,2-Dichlorobenzene - RE	1.18	J H	2.00	0.296	ug/L	1		8270E LL	Total/NA
1,4-Dichlorobenzene - RE	1.71	J H	2.00	0.428	ug/L	1		8270E LL	Total/NA
Acetophenone - RE	1.26	J H	4.00	0.225	ug/L	1		8270E LL	Total/NA
Benzo[a]anthracene - RE	0.175	J H	2.00	0.150	ug/L	1		8270E LL	Total/NA
Benzo[g,h,i]perylene - RE	0.245	J H	2.00	0.143	ug/L	1		8270E LL	Total/NA
Dibenzofuran - RE	1.22	J H	2.00	0.336	ug/L	1		8270E LL	Total/NA
Hexachloroethane - RE	2.10	H	2.00	0.140	ug/L	1		8270E LL	Total/NA
Naphthalene - RE	4.55	H	2.00	0.423	ug/L	1		8270E LL	Total/NA
Phenol - RE	58.5	H	4.00	0.202	ug/L	1		8270E LL	Total/NA
1,1'-Biphenyl - REDL	604	H	100	21.4	ug/L	50		8270E LL	Total/NA
Diphenyl ether - REDL	2390	H	400	18.2	ug/L	50		8270E LL	Total/NA
1,4-Dioxane	2.69		0.662	0.174	ug/L	1		8270E	Total/NA

Client Sample ID: MW-29-D

Lab Sample ID: 860-61847-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	232	J	500	230	ug/L	500		8260D	Total/NA
Carbon tetrachloride	65400		2500	448	ug/L	500		8260D	Total/NA
Chloroform	973		500	232	ug/L	500		8260D	Total/NA
1,2-Dichlorobenzene	0.870	J	2.00	0.296	ug/L	1		8270E LL	Total/NA
1,4-Dichlorobenzene	1.32	J	2.00	0.428	ug/L	1		8270E LL	Total/NA
Acetophenone	0.301	J	4.00	0.225	ug/L	1		8270E LL	Total/NA
Dibenzofuran	0.440	J	2.00	0.336	ug/L	1		8270E LL	Total/NA
Hexachloroethane	0.697	J	2.00	0.140	ug/L	1		8270E LL	Total/NA
Naphthalene	2.42		2.00	0.423	ug/L	1		8270E LL	Total/NA
Phenol	1.74	J	4.00	0.202	ug/L	1		8270E LL	Total/NA
Pyridine	1.44	J B *1	2.00	0.725	ug/L	1		8270E LL	Total/NA
1,1'-Biphenyl - DL	306		40.0	8.57	ug/L	20		8270E LL	Total/NA
Diphenyl ether - DL	914		160	7.27	ug/L	20		8270E LL	Total/NA
1,2-Dichlorobenzene - RE	0.846	J H	2.00	0.296	ug/L	1		8270E LL	Total/NA
1,4-Dichlorobenzene - RE	1.35	J H	2.00	0.428	ug/L	1		8270E LL	Total/NA
Acetophenone - RE	0.303	J H	4.00	0.225	ug/L	1		8270E LL	Total/NA
Dibenzofuran - RE	0.416	J H	2.00	0.336	ug/L	1		8270E LL	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-D (Continued)

Lab Sample ID: 860-61847-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hexachloroethane - RE	0.643	J H	2.00	0.140	ug/L	1		8270E LL	Total/NA
Naphthalene - RE	2.47	H	2.00	0.423	ug/L	1		8270E LL	Total/NA
Phenol - RE	1.82	J H	4.00	0.202	ug/L	1		8270E LL	Total/NA
1,1'-Biphenyl - REDL	303	H	40.0	8.57	ug/L	20		8270E LL	Total/NA
Diphenyl ether - REDL	900	H	160	7.27	ug/L	20		8270E LL	Total/NA

Client Sample ID: FB-02

Lab Sample ID: 860-61847-8

No Detections.

Client Sample ID: MW-28-D

Lab Sample ID: 860-61847-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	281		100	46.0	ug/L	100		8260D	Total/NA
Chlorobenzene	162		100	45.5	ug/L	100		8260D	Total/NA
Chloroform	5810		100	46.4	ug/L	100		8260D	Total/NA
Carbon tetrachloride - DL	31000		2500	448	ug/L	500		8260D	Total/NA
1,2-Dichlorobenzene	1.78	J	2.00	0.296	ug/L	1		8270E LL	Total/NA
1,4-Dichlorobenzene	2.59		2.00	0.428	ug/L	1		8270E LL	Total/NA
Acetophenone	2.27	J	4.00	0.225	ug/L	1		8270E LL	Total/NA
Dibenzofuran	1.59	J	2.00	0.336	ug/L	1		8270E LL	Total/NA
Diphenyl ether	5010	H	4000	182	ug/L	500		8270E LL	Total/NA
Hexachloroethane	0.965	J	2.00	0.140	ug/L	1		8270E LL	Total/NA
Naphthalene	10.3		2.00	0.423	ug/L	1		8270E LL	Total/NA
Phenol	17.5		4.00	0.202	ug/L	1		8270E LL	Total/NA
Pyridine	1.46	J B *1	2.00	0.725	ug/L	1		8270E LL	Total/NA
1,1'-Biphenyl - DL	1080		100	21.4	ug/L	50		8270E LL	Total/NA
Diphenyl ether - DL2	5010		4000	182	ug/L	500		8270E LL	Total/NA
1,2-Dichlorobenzene - RE	1.45	J H	2.00	0.296	ug/L	1		8270E LL	Total/NA
1,4-Dichlorobenzene - RE	2.04	H	2.00	0.428	ug/L	1		8270E LL	Total/NA
Acetophenone - RE	1.98	J H	4.00	0.225	ug/L	1		8270E LL	Total/NA
Dibenzofuran - RE	1.58	J H	2.00	0.336	ug/L	1		8270E LL	Total/NA
Hexachloroethane - RE	0.954	J H	2.00	0.140	ug/L	1		8270E LL	Total/NA
Naphthalene - RE	9.16	H	2.00	0.423	ug/L	1		8270E LL	Total/NA
Phenol - RE	17.9	H	4.00	0.202	ug/L	1		8270E LL	Total/NA
1,1'-Biphenyl - REDL	1080	H	100	21.4	ug/L	50		8270E LL	Total/NA
1,4-Dioxane	2.65		0.667	0.175	ug/L	1		8270E	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 860-61847-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	298		100	46.0	ug/L	100		8260D	Total/NA
Chlorobenzene	170		100	45.5	ug/L	100		8260D	Total/NA
Chloroform	6090		100	46.4	ug/L	100		8260D	Total/NA
Carbon tetrachloride - DL	32100		2500	448	ug/L	500		8260D	Total/NA
1,2-Dichlorobenzene	1.46	J	2.00	0.296	ug/L	1		8270E LL	Total/NA
1,4-Dichlorobenzene	2.22		2.00	0.428	ug/L	1		8270E LL	Total/NA
Acetophenone	1.78	J	4.00	0.225	ug/L	1		8270E LL	Total/NA
Dibenzofuran	1.30	J	2.00	0.336	ug/L	1		8270E LL	Total/NA
Naphthalene	8.55		2.00	0.423	ug/L	1		8270E LL	Total/NA
o,o',o"-Triethylphosphorothioate	0.786	J	8.00	0.0579	ug/L	1		8270E LL	Total/NA
Phenol	14.3		4.00	0.202	ug/L	1		8270E LL	Total/NA
Pyridine	1.42	J B *1	2.00	0.725	ug/L	1		8270E LL	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: DUP-02 (Continued)

Lab Sample ID: 860-61847-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1'-Biphenyl - DL	893		100	21.4	ug/L	50		8270E LL	Total/NA
Diphenyl ether - DL2	4660	H	4000	182	ug/L	500		8270E LL	Total/NA
Diphenyl ether - DL2	3950		2000	90.9	ug/L	250		8270E LL	Total/NA
1,2-Dichlorobenzene - RE	1.32	J H	2.00	0.296	ug/L	1		8270E LL	Total/NA
1,4-Dichlorobenzene - RE	2.00	H	2.00	0.428	ug/L	1		8270E LL	Total/NA
Acetophenone - RE	1.96	J H	4.00	0.225	ug/L	1		8270E LL	Total/NA
Dibenzofuran - RE	1.57	J H	2.00	0.336	ug/L	1		8270E LL	Total/NA
Hexachloroethane - RE	0.799	J H	2.00	0.140	ug/L	1		8270E LL	Total/NA
Naphthalene - RE	8.81	H	2.00	0.423	ug/L	1		8270E LL	Total/NA
o,o',o"-Triethylphosphorothioate - RE	0.819	J H	8.00	0.0579	ug/L	1		8270E LL	Total/NA
Phenol - RE	19.8	H	4.00	0.202	ug/L	1		8270E LL	Total/NA
Pronamide - RE	4.28	H	4.00	1.39	ug/L	1		8270E LL	Total/NA
1,1'-Biphenyl - REDL	1080	H	100	21.4	ug/L	50		8270E LL	Total/NA
1,4-Dioxane	3.10		0.685	0.180	ug/L	1		8270E	Total/NA

Client Sample ID: MW-26D

Lab Sample ID: 860-61847-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	774		200	91.9	ug/L	200		8260D	Total/NA
Chlorobenzene	237		200	91.0	ug/L	200		8260D	Total/NA
Chloroform	7860		200	92.8	ug/L	200		8260D	Total/NA
Carbon tetrachloride - DL	77100		5000	896	ug/L	1000		8260D	Total/NA
1,2-Dichlorobenzene	1.55	J	2.00	0.296	ug/L	1		8270E LL	Total/NA
1,4-Dichlorobenzene	2.46		2.00	0.428	ug/L	1		8270E LL	Total/NA
Acetophenone	4.70		4.00	0.225	ug/L	1		8270E LL	Total/NA
Dibenzofuran	2.01		2.00	0.336	ug/L	1		8270E LL	Total/NA
Naphthalene	11.4		2.00	0.423	ug/L	1		8270E LL	Total/NA
1,1'-Biphenyl - DL	1450		100	21.4	ug/L	50		8270E LL	Total/NA
Diphenyl ether - DL	4190	H	4000	182	ug/L	500		8270E LL	Total/NA
Phenol - DL	274		200	10.1	ug/L	50		8270E LL	Total/NA
Diphenyl ether - DL2	5870		4000	182	ug/L	500		8270E LL	Total/NA
1,2-Dichlorobenzene - RE	1.24	J H	2.00	0.296	ug/L	1		8270E LL	Total/NA
1,4-Dichlorobenzene - RE	1.71	J H	2.00	0.428	ug/L	1		8270E LL	Total/NA
2-Methylphenol - RE	0.443	J H	2.00	0.159	ug/L	1		8270E LL	Total/NA
Acetophenone - RE	10.1	H	4.00	0.225	ug/L	1		8270E LL	Total/NA
Dibenzofuran - RE	1.75	J H	2.00	0.336	ug/L	1		8270E LL	Total/NA
Hexachloroethane - RE	0.605	J H	2.00	0.140	ug/L	1		8270E LL	Total/NA
Naphthalene - RE	8.85	H	2.00	0.423	ug/L	1		8270E LL	Total/NA
1,1'-Biphenyl - REDL	1180	H	100	21.4	ug/L	50		8270E LL	Total/NA
Phenol - REDL	1710	H	200	10.1	ug/L	50		8270E LL	Total/NA
1,4-Dioxane	6.23		0.673	0.177	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: TB-12 (111523)

Lab Sample ID: 860-61847-1

Date Collected: 11/15/23 00:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/18/23 14:28	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/18/23 14:28	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/18/23 14:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/18/23 14:28	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/18/23 14:28	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/18/23 14:28	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/18/23 14:28	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/18/23 14:28	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/18/23 14:28	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/18/23 14:28	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/18/23 14:28	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/18/23 14:28	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/18/23 14:28	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/18/23 14:28	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/18/23 14:28	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/18/23 14:28	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/18/23 14:28	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/18/23 14:28	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/18/23 14:28	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/18/23 14:28	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/18/23 14:28	1
Acetone	<3.07	U	100	3.07	ug/L			11/18/23 14:28	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/18/23 14:28	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/18/23 14:28	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/18/23 14:28	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/18/23 14:28	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/18/23 14:28	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/18/23 14:28	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/18/23 14:28	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/18/23 14:28	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/18/23 14:28	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/18/23 14:28	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/18/23 14:28	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/18/23 14:28	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/18/23 14:28	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/18/23 14:28	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/18/23 14:28	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/18/23 14:28	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/18/23 14:28	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/18/23 14:28	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/18/23 14:28	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/18/23 14:28	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/18/23 14:28	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/18/23 14:28	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/18/23 14:28	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/18/23 14:28	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/18/23 14:28	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/18/23 14:28	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/18/23 14:28	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: TB-12 (111523)

Lab Sample ID: 860-61847-1

Date Collected: 11/15/23 00:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/18/23 14:28	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/18/23 14:28	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/18/23 14:28	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/18/23 14:28	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/18/23 14:28	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/18/23 14:28	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/18/23 14:28	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/18/23 14:28	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/18/23 14:28	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/18/23 14:28	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/18/23 14:28	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/18/23 14:28	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/18/23 14:28	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/18/23 14:28	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/18/23 14:28	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/18/23 14:28	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/18/23 14:28	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/18/23 14:28	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/18/23 14:28	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/18/23 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		11/18/23 14:28	1
4-Bromofluorobenzene (Surr)	99		74 - 124		11/18/23 14:28	1
Dibromofluoromethane (Surr)	102		75 - 131		11/18/23 14:28	1
Toluene-d8 (Surr)	98		80 - 120		11/18/23 14:28	1

Client Sample ID: MW-33-D

Lab Sample ID: 860-61847-2

Date Collected: 11/15/23 15:01

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/20/23 17:25	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/20/23 17:25	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/20/23 17:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/20/23 17:25	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/20/23 17:25	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/20/23 17:25	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/20/23 17:25	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/20/23 17:25	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/20/23 17:25	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/20/23 17:25	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/20/23 17:25	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/20/23 17:25	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/20/23 17:25	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/20/23 17:25	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/20/23 17:25	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/20/23 17:25	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/20/23 17:25	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-33-D

Lab Sample ID: 860-61847-2

Date Collected: 11/15/23 15:01

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/20/23 17:25	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/20/23 17:25	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/20/23 17:25	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/20/23 17:25	1
Acetone	<3.07	U	100	3.07	ug/L			11/20/23 17:25	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/20/23 17:25	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/20/23 17:25	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/20/23 17:25	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/20/23 17:25	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/20/23 17:25	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/20/23 17:25	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/20/23 17:25	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/20/23 17:25	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/20/23 17:25	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/20/23 17:25	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/20/23 17:25	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/20/23 17:25	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/20/23 17:25	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/20/23 17:25	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/20/23 17:25	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/20/23 17:25	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/20/23 17:25	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/20/23 17:25	1
Cumene (isopropylbenzene)	0.681	J	1.00	0.592	ug/L			11/20/23 17:25	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/20/23 17:25	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/20/23 17:25	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/20/23 17:25	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/20/23 17:25	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/20/23 17:25	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/20/23 17:25	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/20/23 17:25	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/20/23 17:25	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/20/23 17:25	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/20/23 17:25	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/20/23 17:25	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/20/23 17:25	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/20/23 17:25	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/20/23 17:25	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/20/23 17:25	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/20/23 17:25	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/20/23 17:25	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/20/23 17:25	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/20/23 17:25	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/20/23 17:25	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/20/23 17:25	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/20/23 17:25	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/20/23 17:25	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/20/23 17:25	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/20/23 17:25	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-33-D

Lab Sample ID: 860-61847-2

Date Collected: 11/15/23 15:01

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/20/23 17:25	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/20/23 17:25	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/20/23 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		11/20/23 17:25	1
4-Bromofluorobenzene (Surr)	100		74 - 124		11/20/23 17:25	1
Dibromofluoromethane (Surr)	102		75 - 131		11/20/23 17:25	1
Toluene-d8 (Surr)	98		80 - 120		11/20/23 17:25	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/27/23 11:31	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/27/23 11:31	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/22/23 13:06	11/27/23 11:31	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/27/23 11:31	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/27/23 11:31	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/27/23 11:31	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 11:31	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/27/23 11:31	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 11:31	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/27/23 11:31	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/27/23 11:31	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/27/23 11:31	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 11:31	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/27/23 11:31	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 11:31	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/27/23 11:31	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/27/23 11:31	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 11:31	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 11:31	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/27/23 11:31	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/27/23 11:31	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/27/23 11:31	1
2-Methylnaphthalene	0.615	J	2.00	0.480	ug/L		11/22/23 13:06	11/27/23 11:31	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 11:31	1
2-Naphthylamine	<0.595	U *	8.00	0.595	ug/L		11/22/23 13:06	11/27/23 11:31	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/27/23 11:31	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 11:31	1
2-Picoline	<0.215	U *1	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 11:31	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/27/23 11:31	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/27/23 11:31	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/27/23 11:31	1
3,3'-Dimethylbenzidine	<0.444	U * - *1	8.00	0.444	ug/L		11/22/23 13:06	11/27/23 11:31	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/27/23 11:31	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/27/23 11:31	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/27/23 11:31	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/27/23 11:31	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/27/23 11:31	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/27/23 11:31	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-33-D

Lab Sample ID: 860-61847-2

Date Collected: 11/15/23 15:01

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/27/23 11:31	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 11:31	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/27/23 11:31	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/27/23 11:31	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/27/23 11:31	1
Acenaphthene	0.845	J	2.00	0.208	ug/L		11/22/23 13:06	11/27/23 11:31	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 11:31	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/22/23 13:06	11/27/23 11:31	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/27/23 11:31	1
Aniline	<0.314	U *1	4.00	0.314	ug/L		11/22/23 13:06	11/27/23 11:31	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/27/23 11:31	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 11:31	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 11:31	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 11:31	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/27/23 11:31	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 11:31	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/27/23 11:31	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/27/23 11:31	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/27/23 11:31	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/27/23 11:31	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/27/23 11:31	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 11:31	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 11:31	1
Diallylate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 11:31	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 11:31	1
Dibenzofuran	3.29		2.00	0.336	ug/L		11/22/23 13:06	11/27/23 11:31	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/27/23 11:31	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/27/23 11:31	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 11:31	1
Di-n-butyl phthalate	0.803	J	2.00	0.800	ug/L		11/22/23 13:06	11/27/23 11:31	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/27/23 11:31	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/27/23 11:31	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/27/23 11:31	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 11:31	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/27/23 11:31	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/27/23 11:31	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 11:31	1
Fluorene	0.262	J	2.00	0.205	ug/L		11/22/23 13:06	11/27/23 11:31	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 11:31	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/27/23 11:31	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/27/23 11:31	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/22/23 13:06	11/27/23 11:31	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/27/23 11:31	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/27/23 11:31	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/27/23 11:31	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 11:31	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/27/23 11:31	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/27/23 11:31	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/27/23 11:31	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-33-D

Lab Sample ID: 860-61847-2

Date Collected: 11/15/23 15:01

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1.29	J	2.00	0.423	ug/L		11/22/23 13:06	11/27/23 11:31	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/27/23 11:31	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/27/23 11:31	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/27/23 11:31	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 11:31	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/27/23 11:31	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/27/23 11:31	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/27/23 11:31	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 11:31	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 11:31	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 11:31	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 11:31	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 11:31	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 11:31	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/27/23 11:31	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/27/23 11:31	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/27/23 11:31	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/27/23 11:31	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/27/23 11:31	1
Phenol	8.20		4.00	0.202	ug/L		11/22/23 13:06	11/27/23 11:31	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/27/23 11:31	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/22/23 13:06	11/27/23 11:31	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/27/23 11:31	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 11:31	1
Pyridine	1.26	J B *1	2.00	0.725	ug/L		11/22/23 13:06	11/27/23 11:31	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/27/23 11:31	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/27/23 11:31	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/27/23 11:31	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/27/23 11:31	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 11:31	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 11:31	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/22/23 13:06	11/27/23 11:31	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/27/23 11:31	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 11:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	58		31 - 132	11/22/23 13:06	11/27/23 11:31	1
2-Fluorobiphenyl	57		40 - 130	11/22/23 13:06	11/27/23 11:31	1
2-Fluorophenol (Surr)	36		21 - 114	11/22/23 13:06	11/27/23 11:31	1
Nitrobenzene-d5 (Surr)	50		37 - 130	11/22/23 13:06	11/27/23 11:31	1
Phenol-d5 (Surr)	23		16 - 117	11/22/23 13:06	11/27/23 11:31	1
p-Terphenyl-d14	97		20 - 141	11/22/23 13:06	11/27/23 11:31	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1080		40.0	8.57	ug/L		11/22/23 13:06	11/28/23 11:55	20
1,1'-Biphenyl	1080	H	40.0	8.57	ug/L		11/28/23 09:28	11/30/23 12:37	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/22/23 13:06	11/28/23 11:55	20

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-33-D

Lab Sample ID: 860-61847-2

Date Collected: 11/15/23 15:01

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/28/23 09:28	11/30/23 12:37	20
2-Fluorobiphenyl	64		40 - 130	11/22/23 13:06	11/28/23 11:55	20
2-Fluorobiphenyl	64		40 - 130	11/28/23 09:28	11/30/23 12:37	20
2-Fluorophenol (Surr)	40		21 - 114	11/22/23 13:06	11/28/23 11:55	20
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/28/23 09:28	11/30/23 12:37	20
Nitrobenzene-d5 (Surr)	50		37 - 130	11/22/23 13:06	11/28/23 11:55	20
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/28/23 09:28	11/30/23 12:37	20
Phenol-d5 (Surr)	0	S1-	16 - 117	11/22/23 13:06	11/28/23 11:55	20
Phenol-d5 (Surr)	0	S1-	16 - 117	11/28/23 09:28	11/30/23 12:37	20
p-Terphenyl-d14	97		20 - 141	11/22/23 13:06	11/28/23 11:55	20
p-Terphenyl-d14	63		20 - 141	11/28/23 09:28	11/30/23 12:37	20

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	5860		1600	72.7	ug/L		11/22/23 13:06	11/30/23 12:16	200
Diphenyl ether	6310	H	1600	72.7	ug/L		11/28/23 09:28	11/30/23 12:58	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/22/23 13:06	11/30/23 12:16	200
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/28/23 09:28	11/30/23 12:58	200
2-Fluorobiphenyl	0	S1-	40 - 130	11/22/23 13:06	11/30/23 12:16	200
2-Fluorobiphenyl	0	S1-	40 - 130	11/28/23 09:28	11/30/23 12:58	200
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/22/23 13:06	11/30/23 12:16	200
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/28/23 09:28	11/30/23 12:58	200
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/22/23 13:06	11/30/23 12:16	200
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/28/23 09:28	11/30/23 12:58	200
Phenol-d5 (Surr)	0	S1-	16 - 117	11/22/23 13:06	11/30/23 12:16	200
Phenol-d5 (Surr)	0	S1-	16 - 117	11/28/23 09:28	11/30/23 12:58	200
p-Terphenyl-d14	0	S1-	20 - 141	11/22/23 13:06	11/30/23 12:16	200
p-Terphenyl-d14	0	S1-	20 - 141	11/28/23 09:28	11/30/23 12:58	200

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	819	H E	2.00	0.428	ug/L		11/28/23 09:28	11/29/23 00:47	1
1,2,4,5-Tetrachlorobenzene	<0.672	U H	2.00	0.672	ug/L		11/28/23 09:28	11/29/23 00:47	1
1,2,4-Trichlorobenzene	<0.680	U H	2.00	0.680	ug/L		11/28/23 09:28	11/29/23 00:47	1
1,2-Dichlorobenzene	<0.296	U H	2.00	0.296	ug/L		11/28/23 09:28	11/29/23 00:47	1
1,3,5-Trinitrobenzene	<1.43	U H	2.00	1.43	ug/L		11/28/23 09:28	11/29/23 00:47	1
1,3-Dichlorobenzene	<0.350	U H	2.00	0.350	ug/L		11/28/23 09:28	11/29/23 00:47	1
1,3-Dinitrobenzene	<0.112	U H	2.00	0.112	ug/L		11/28/23 09:28	11/29/23 00:47	1
1,4-Dichlorobenzene	<0.428	U H	2.00	0.428	ug/L		11/28/23 09:28	11/29/23 00:47	1
1,4-Naphthoquinone	<1.85	U H	8.00	1.85	ug/L		11/28/23 09:28	11/29/23 00:47	1
1-Naphthylamine	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/29/23 00:47	1
2,2'-oxybis[1-chloropropane]	<0.139	U H	2.00	0.139	ug/L		11/28/23 09:28	11/29/23 00:47	1
2,3,4,6-Tetrachlorophenol	<0.174	U H	2.00	0.174	ug/L		11/28/23 09:28	11/29/23 00:47	1
2,4,5-Trichlorophenol	<0.108	U H	2.00	0.108	ug/L		11/28/23 09:28	11/29/23 00:47	1
2,4,6-Trichlorophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/29/23 00:47	1
2,4-Dichlorophenol	<0.115	U H	2.00	0.115	ug/L		11/28/23 09:28	11/29/23 00:47	1
2,4-Dimethylphenol	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/29/23 00:47	1
2,4-Dinitrophenol	<1.46	U H	8.00	1.46	ug/L		11/28/23 09:28	11/29/23 00:47	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-33-D

Lab Sample ID: 860-61847-2

Date Collected: 11/15/23 15:01

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	<0.127	U H	2.00	0.127	ug/L		11/28/23 09:28	11/29/23 00:47	1
2,6-Dichlorophenol	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/29/23 00:47	1
2,6-Dinitrotoluene	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/29/23 00:47	1
2-Acetylaminofluorene	<1.52	U H	8.00	1.52	ug/L		11/28/23 09:28	11/29/23 00:47	1
2-Chloronaphthalene	<1.09	U H	8.00	1.09	ug/L		11/28/23 09:28	11/29/23 00:47	1
2-Chlorophenol	<0.0135	U H	2.00	0.0135	ug/L		11/28/23 09:28	11/29/23 00:47	1
2-Methylnaphthalene	<0.480	U H	2.00	0.480	ug/L		11/28/23 09:28	11/29/23 00:47	1
2-Methylphenol	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/29/23 00:47	1
2-Naphthylamine	<0.595	U H	8.00	0.595	ug/L		11/28/23 09:28	11/29/23 00:47	1
2-Nitroaniline	<0.163	U H	4.00	0.163	ug/L		11/28/23 09:28	11/29/23 00:47	1
2-Nitrophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/29/23 00:47	1
2-Picoline	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/29/23 00:47	1
2-Toluidine	<0.934	U H	8.00	0.934	ug/L		11/28/23 09:28	11/29/23 00:47	1
3 & 4 Methylphenol	<0.163	U H	2.00	0.163	ug/L		11/28/23 09:28	11/29/23 00:47	1
3,3'-Dichlorobenzidine	<0.220	U H	4.00	0.220	ug/L		11/28/23 09:28	11/29/23 00:47	1
3,3'-Dimethylbenzidine	<0.444	U H *	8.00	0.444	ug/L		11/28/23 09:28	11/29/23 00:47	1
3-Methylcholanthrene	<0.159	U H	8.00	0.159	ug/L		11/28/23 09:28	11/29/23 00:47	1
3-Nitroaniline	<0.344	U H	2.00	0.344	ug/L		11/28/23 09:28	11/29/23 00:47	1
4,6-Dinitro-2-methylphenol	<0.736	U H	8.00	0.736	ug/L		11/28/23 09:28	11/29/23 00:47	1
4-Aminobiphenyl	<0.297	U H	8.00	0.297	ug/L		11/28/23 09:28	11/29/23 00:47	1
4-Bromophenyl phenyl ether	<0.167	U H	2.00	0.167	ug/L		11/28/23 09:28	11/29/23 00:47	1
4-Chloro-3-methylphenol	<0.157	U H	2.00	0.157	ug/L		11/28/23 09:28	11/29/23 00:47	1
4-Chloroaniline	<0.149	U H	4.00	0.149	ug/L		11/28/23 09:28	11/29/23 00:47	1
4-Chlorophenyl phenyl ether	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/29/23 00:47	1
4-Nitroaniline	<0.247	U H	4.00	0.247	ug/L		11/28/23 09:28	11/29/23 00:47	1
4-Nitroquinoline-1-oxide	<2.15	U H	4.00	2.15	ug/L		11/28/23 09:28	11/29/23 00:47	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U H	8.00	0.0610	ug/L		11/28/23 09:28	11/29/23 00:47	1
Acenaphthene	0.833	J H	2.00	0.208	ug/L		11/28/23 09:28	11/29/23 00:47	1
Acenaphthylene	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/29/23 00:47	1
Acetophenone	<0.225	U H	4.00	0.225	ug/L		11/28/23 09:28	11/29/23 00:47	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U H	4.00	4.00	ug/L		11/28/23 09:28	11/29/23 00:47	1
Aniline	<0.314	U H	4.00	0.314	ug/L		11/28/23 09:28	11/29/23 00:47	1
Anthracene	<0.154	U H	2.00	0.154	ug/L		11/28/23 09:28	11/29/23 00:47	1
Aramite, Total	<0.670	U H	4.00	0.670	ug/L		11/28/23 09:28	11/29/23 00:47	1
Benzo[a]anthracene	<0.150	U H	2.00	0.150	ug/L		11/28/23 09:28	11/29/23 00:47	1
Benzo[a]pyrene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/29/23 00:47	1
Benzo[b]fluoranthene	<0.210	U H	2.00	0.210	ug/L		11/28/23 09:28	11/29/23 00:47	1
Benzo[g,h,i]perylene	<0.143	U H	2.00	0.143	ug/L		11/28/23 09:28	11/29/23 00:47	1
Benzo[k]fluoranthene	<0.166	U H	2.00	0.166	ug/L		11/28/23 09:28	11/29/23 00:47	1
Benzyl alcohol	<4.50	U H	8.00	4.50	ug/L		11/28/23 09:28	11/29/23 00:47	1
Bis(2-chloroethoxy)methane	<0.170	U H	2.00	0.170	ug/L		11/28/23 09:28	11/29/23 00:47	1
Bis(2-chloroethyl)ether	<0.278	U H	2.00	0.278	ug/L		11/28/23 09:28	11/29/23 00:47	1
Bis(2-ethylhexyl) phthalate	<0.225	U H	2.00	0.225	ug/L		11/28/23 09:28	11/29/23 00:47	1
Butyl benzyl phthalate	<0.150	U H	2.00	0.150	ug/L		11/28/23 09:28	11/29/23 00:47	1
Chrysene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/29/23 00:47	1
Diallate	<0.602	U H	8.00	0.602	ug/L		11/28/23 09:28	11/29/23 00:47	1
Dibenz(a,h)anthracene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/29/23 00:47	1
Dibenzofuran	3.36	H	2.00	0.336	ug/L		11/28/23 09:28	11/29/23 00:47	1
Diethyl phthalate	<0.118	U H	2.00	0.118	ug/L		11/28/23 09:28	11/29/23 00:47	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-33-D

Lab Sample ID: 860-61847-2

Date Collected: 11/15/23 15:01

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	<1.70	U H	8.00	1.70	ug/L		11/28/23 09:28	11/29/23 00:47	1
Dimethyl phthalate	<0.143	U H	2.00	0.143	ug/L		11/28/23 09:28	11/29/23 00:47	1
Di-n-butyl phthalate	<0.800	U H	2.00	0.800	ug/L		11/28/23 09:28	11/29/23 00:47	1
Di-n-octyl phthalate	<0.169	U H	2.00	0.169	ug/L		11/28/23 09:28	11/29/23 00:47	1
Dinoseb	<2.00	U H	4.00	2.00	ug/L		11/28/23 09:28	11/29/23 00:47	1
Diphenyl ether	3100	H E	8.00	0.364	ug/L		11/28/23 09:28	11/29/23 00:47	1
Disulfoton	<1.39	U H	8.00	1.39	ug/L		11/28/23 09:28	11/29/23 00:47	1
Ethyl methanesulfonate	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/29/23 00:47	1
Ethyl Parathion	<1.41	U H	4.00	1.41	ug/L		11/28/23 09:28	11/29/23 00:47	1
Famphur	<8.00	U H	8.00	8.00	ug/L		11/28/23 09:28	11/29/23 00:47	1
Fluoranthene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/29/23 00:47	1
Fluorene	0.252	J H	2.00	0.205	ug/L		11/28/23 09:28	11/29/23 00:47	1
Hexachlorobenzene	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/29/23 00:47	1
Hexachlorobutadiene	<0.252	U H	2.00	0.252	ug/L		11/28/23 09:28	11/29/23 00:47	1
Hexachlorocyclopentadiene	<0.431	U H	2.00	0.431	ug/L		11/28/23 09:28	11/29/23 00:47	1
Hexachloroethane	<0.140	U H	2.00	0.140	ug/L		11/28/23 09:28	11/29/23 00:47	1
Hexachloropropene	<0.213	U H	4.00	0.213	ug/L		11/28/23 09:28	11/29/23 00:47	1
Indeno[1,2,3-cd]pyrene	<0.852	U H	2.00	0.852	ug/L		11/28/23 09:28	11/29/23 00:47	1
Isophorone	<0.168	U H	2.00	0.168	ug/L		11/28/23 09:28	11/29/23 00:47	1
Isosafrole	<2.46	U H	6.00	2.46	ug/L		11/28/23 09:28	11/29/23 00:47	1
Methapyrilene	<0.181	U H	2.00	0.181	ug/L		11/28/23 09:28	11/29/23 00:47	1
Methyl methanesulfonate	<0.0610	U H	2.00	0.0610	ug/L		11/28/23 09:28	11/29/23 00:47	1
Methyl parathion	<1.64	U H	4.00	1.64	ug/L		11/28/23 09:28	11/29/23 00:47	1
Naphthalene	1.20	J H	2.00	0.423	ug/L		11/28/23 09:28	11/29/23 00:47	1
Nitrobenzene	<0.934	U H	2.00	0.934	ug/L		11/28/23 09:28	11/29/23 00:47	1
N-Nitro-o-toluidine	<1.31	U H	8.00	1.31	ug/L		11/28/23 09:28	11/29/23 00:47	1
N-Nitrosodiethylamine	<1.54	U H	4.00	1.54	ug/L		11/28/23 09:28	11/29/23 00:47	1
N-Nitrosodimethylamine	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/29/23 00:47	1
N-Nitrosodi-n-butylamine	<1.54	U H	2.00	1.54	ug/L		11/28/23 09:28	11/29/23 00:47	1
N-Nitrosodi-n-propylamine	<0.161	U H	2.00	0.161	ug/L		11/28/23 09:28	11/29/23 00:47	1
N-Nitrosodiphenylamine	<0.155	U H	2.00	0.155	ug/L		11/28/23 09:28	11/29/23 00:47	1
N-Nitrosomethylethylamine	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/29/23 00:47	1
N-Nitrosomorpholine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/29/23 00:47	1
N-Nitrosopiperidine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/29/23 00:47	1
N-Nitrosopyrrolidine	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/29/23 00:47	1
o,o',o"-Triethylphosphorothioate	<0.0579	U H	8.00	0.0579	ug/L		11/28/23 09:28	11/29/23 00:47	1
p-Dimethylamino azobenzene	<0.0579	U H	8.00	0.0579	ug/L		11/28/23 09:28	11/29/23 00:47	1
Pentachlorobenzene	<1.18	U H	2.00	1.18	ug/L		11/28/23 09:28	11/29/23 00:47	1
Pentachloronitrobenzene	<1.27	U H	2.00	1.27	ug/L		11/28/23 09:28	11/29/23 00:47	1
Pentachlorophenol	<0.441	U H	2.00	0.441	ug/L		11/28/23 09:28	11/29/23 00:47	1
Phenacetin	<1.32	U H	8.00	1.32	ug/L		11/28/23 09:28	11/29/23 00:47	1
Phenanthrene	0.240	J H	2.00	0.176	ug/L		11/28/23 09:28	11/29/23 00:47	1
Phenol	11.8	H	4.00	0.202	ug/L		11/28/23 09:28	11/29/23 00:47	1
Phorate	<1.40	U H	8.00	1.40	ug/L		11/28/23 09:28	11/29/23 00:47	1
p-Phenylene diamine	<10.0	U H *	10.0	10.0	ug/L		11/28/23 09:28	11/29/23 00:47	1
Pronamide	<1.39	U H	4.00	1.39	ug/L		11/28/23 09:28	11/29/23 00:47	1
Pyrene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/29/23 00:47	1
Pyridine	<0.725	U H	2.00	0.725	ug/L		11/28/23 09:28	11/29/23 00:47	1
Safrole, Total	<0.183	U H	4.00	0.183	ug/L		11/28/23 09:28	11/29/23 00:47	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-33-D

Lab Sample ID: 860-61847-2

Date Collected: 11/15/23 15:01

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfotepp	<1.43	U H	4.00	1.43	ug/L		11/28/23 09:28	11/29/23 00:47	1
Thionazin	<1.44	U H	8.00	1.44	ug/L		11/28/23 09:28	11/29/23 00:47	1
Aramite Peak 2	<2.74	U H	4.00	2.74	ug/L		11/28/23 09:28	11/29/23 00:47	1
Isosafrole Peak 1	<2.46	U H	6.00	2.46	ug/L		11/28/23 09:28	11/29/23 00:47	1
Diallate Peak 2	<0.602	U H	8.00	0.602	ug/L		11/28/23 09:28	11/29/23 00:47	1
Isosafrole Peak 2	<2.12	U H	6.00	2.12	ug/L		11/28/23 09:28	11/29/23 00:47	1
Diallate Peak 1	<0.675	U H	8.00	0.675	ug/L		11/28/23 09:28	11/29/23 00:47	1
Aramite Peak 1	<0.670	U H	4.00	0.670	ug/L		11/28/23 09:28	11/29/23 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		31 - 132	11/28/23 09:28	11/29/23 00:47	1
2-Fluorobiphenyl	67		40 - 130	11/28/23 09:28	11/29/23 00:47	1
2-Fluorophenol (Surr)	37		21 - 114	11/28/23 09:28	11/29/23 00:47	1
Nitrobenzene-d5 (Surr)	54		37 - 130	11/28/23 09:28	11/29/23 00:47	1
Phenol-d5 (Surr)	25		16 - 117	11/28/23 09:28	11/29/23 00:47	1
p-Terphenyl-d14	65		20 - 141	11/28/23 09:28	11/29/23 00:47	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.170	U	0.649	0.170	ug/L		11/20/23 12:55	11/21/23 10:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	123		37 - 133	11/20/23 12:55	11/21/23 10:07	1

Client Sample ID: MW-30-D

Lab Sample ID: 860-61847-3

Date Collected: 11/15/23 15:05

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/18/23 15:30	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/18/23 15:30	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/18/23 15:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/18/23 15:30	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/18/23 15:30	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/18/23 15:30	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/18/23 15:30	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/18/23 15:30	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/18/23 15:30	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/18/23 15:30	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/18/23 15:30	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/18/23 15:30	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/18/23 15:30	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/18/23 15:30	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/18/23 15:30	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/18/23 15:30	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/18/23 15:30	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/18/23 15:30	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/18/23 15:30	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/18/23 15:30	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/18/23 15:30	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-30-D

Lab Sample ID: 860-61847-3

Date Collected: 11/15/23 15:05

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.07	U	100	3.07	ug/L			11/18/23 15:30	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/18/23 15:30	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/18/23 15:30	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/18/23 15:30	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/18/23 15:30	1
Benzene	3.98		1.00	0.460	ug/L			11/18/23 15:30	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/18/23 15:30	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/18/23 15:30	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/18/23 15:30	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/18/23 15:30	1
Chlorobenzene	3.94		1.00	0.455	ug/L			11/18/23 15:30	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/18/23 15:30	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/18/23 15:30	1
Chloroform	23.1		1.00	0.464	ug/L			11/18/23 15:30	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/18/23 15:30	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/18/23 15:30	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/18/23 15:30	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/18/23 15:30	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/18/23 15:30	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/18/23 15:30	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/18/23 15:30	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/18/23 15:30	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/18/23 15:30	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/18/23 15:30	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/18/23 15:30	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/18/23 15:30	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/18/23 15:30	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/18/23 15:30	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/18/23 15:30	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/18/23 15:30	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/18/23 15:30	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/18/23 15:30	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/18/23 15:30	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/18/23 15:30	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/18/23 15:30	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/18/23 15:30	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/18/23 15:30	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/18/23 15:30	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/18/23 15:30	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/18/23 15:30	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/18/23 15:30	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/18/23 15:30	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/18/23 15:30	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/18/23 15:30	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/18/23 15:30	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/18/23 15:30	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/18/23 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/18/23 15:30	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-30-D

Lab Sample ID: 860-61847-3

Date Collected: 11/15/23 15:05

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		74 - 124		11/18/23 15:30	1
Dibromofluoromethane (Surr)	103		75 - 131		11/18/23 15:30	1
Toluene-d8 (Surr)	97		80 - 120		11/18/23 15:30	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	3410		250	44.8	ug/L			11/19/23 04:45	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		11/19/23 04:45	50
4-Bromofluorobenzene (Surr)	111		74 - 124		11/19/23 04:45	50
Dibromofluoromethane (Surr)	109		75 - 131		11/19/23 04:45	50
Toluene-d8 (Surr)	106		80 - 120		11/19/23 04:45	50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	18.4		2.00	0.428	ug/L		11/22/23 13:06	11/27/23 11:52	1
1,1'-Biphenyl	18.7	H	2.00	0.428	ug/L		11/28/23 09:28	11/29/23 02:10	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/27/23 11:52	1
1,2,4,5-Tetrachlorobenzene	<0.672	U H	2.00	0.672	ug/L		11/28/23 09:28	11/29/23 02:10	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/27/23 11:52	1
1,2,4-Trichlorobenzene	<0.680	U H	2.00	0.680	ug/L		11/28/23 09:28	11/29/23 02:10	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/22/23 13:06	11/27/23 11:52	1
1,2-Dichlorobenzene	<0.296	U H	2.00	0.296	ug/L		11/28/23 09:28	11/29/23 02:10	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/27/23 11:52	1
1,3,5-Trinitrobenzene	<1.43	U H	2.00	1.43	ug/L		11/28/23 09:28	11/29/23 02:10	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/27/23 11:52	1
1,3-Dichlorobenzene	<0.350	U H	2.00	0.350	ug/L		11/28/23 09:28	11/29/23 02:10	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/27/23 11:52	1
1,3-Dinitrobenzene	<0.112	U H	2.00	0.112	ug/L		11/28/23 09:28	11/29/23 02:10	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 11:52	1
1,4-Dichlorobenzene	<0.428	U H	2.00	0.428	ug/L		11/28/23 09:28	11/29/23 02:10	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/27/23 11:52	1
1,4-Naphthoquinone	<1.85	U H	8.00	1.85	ug/L		11/28/23 09:28	11/29/23 02:10	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 11:52	1
1-Naphthylamine	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/29/23 02:10	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/27/23 11:52	1
2,2'-oxybis[1-chloropropane]	<0.139	U H	2.00	0.139	ug/L		11/28/23 09:28	11/29/23 02:10	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/27/23 11:52	1
2,3,4,6-Tetrachlorophenol	<0.174	U H	2.00	0.174	ug/L		11/28/23 09:28	11/29/23 02:10	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/27/23 11:52	1
2,4,5-Trichlorophenol	<0.108	U H	2.00	0.108	ug/L		11/28/23 09:28	11/29/23 02:10	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 11:52	1
2,4,6-Trichlorophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/29/23 02:10	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/27/23 11:52	1
2,4-Dichlorophenol	<0.115	U H	2.00	0.115	ug/L		11/28/23 09:28	11/29/23 02:10	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 11:52	1
2,4-Dimethylphenol	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/29/23 02:10	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/27/23 11:52	1
2,4-Dinitrophenol	<1.46	U H	8.00	1.46	ug/L		11/28/23 09:28	11/29/23 02:10	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-30-D

Lab Sample ID: 860-61847-3

Date Collected: 11/15/23 15:05

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/27/23 11:52	1
2,4-Dinitrotoluene	<0.127	U H	2.00	0.127	ug/L		11/28/23 09:28	11/29/23 02:10	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 11:52	1
2,6-Dichlorophenol	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/29/23 02:10	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 11:52	1
2,6-Dinitrotoluene	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/29/23 02:10	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/27/23 11:52	1
2-Acetylaminofluorene	<1.52	U H	8.00	1.52	ug/L		11/28/23 09:28	11/29/23 02:10	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/27/23 11:52	1
2-Chloronaphthalene	<1.09	U H	8.00	1.09	ug/L		11/28/23 09:28	11/29/23 02:10	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/27/23 11:52	1
2-Chlorophenol	<0.0135	U H	2.00	0.0135	ug/L		11/28/23 09:28	11/29/23 02:10	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/22/23 13:06	11/27/23 11:52	1
2-Methylnaphthalene	<0.480	U H	2.00	0.480	ug/L		11/28/23 09:28	11/29/23 02:10	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 11:52	1
2-Methylphenol	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/29/23 02:10	1
2-Naphthylamine	<0.595	U *	8.00	0.595	ug/L		11/22/23 13:06	11/27/23 11:52	1
2-Naphthylamine	<0.595	U H	8.00	0.595	ug/L		11/28/23 09:28	11/29/23 02:10	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/27/23 11:52	1
2-Nitroaniline	<0.163	U H	4.00	0.163	ug/L		11/28/23 09:28	11/29/23 02:10	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 11:52	1
2-Nitrophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/29/23 02:10	1
2-Picoline	<0.215	U *1	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 11:52	1
2-Picoline	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/29/23 02:10	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/27/23 11:52	1
2-Toluidine	<0.934	U H	8.00	0.934	ug/L		11/28/23 09:28	11/29/23 02:10	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/27/23 11:52	1
3 & 4 Methylphenol	<0.163	U H	2.00	0.163	ug/L		11/28/23 09:28	11/29/23 02:10	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/27/23 11:52	1
3,3'-Dichlorobenzidine	<0.220	U H	4.00	0.220	ug/L		11/28/23 09:28	11/29/23 02:10	1
3,3'-Dimethylbenzidine	<0.444	U * - *1	8.00	0.444	ug/L		11/22/23 13:06	11/27/23 11:52	1
3,3'-Dimethylbenzidine	<0.444	U H *	8.00	0.444	ug/L		11/28/23 09:28	11/29/23 02:10	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/27/23 11:52	1
3-Methylcholanthrene	<0.159	U H	8.00	0.159	ug/L		11/28/23 09:28	11/29/23 02:10	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/27/23 11:52	1
3-Nitroaniline	<0.344	U H	2.00	0.344	ug/L		11/28/23 09:28	11/29/23 02:10	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/27/23 11:52	1
4,6-Dinitro-2-methylphenol	<0.736	U H	8.00	0.736	ug/L		11/28/23 09:28	11/29/23 02:10	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/27/23 11:52	1
4-Aminobiphenyl	<0.297	U H	8.00	0.297	ug/L		11/28/23 09:28	11/29/23 02:10	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/27/23 11:52	1
4-Bromophenyl phenyl ether	<0.167	U H	2.00	0.167	ug/L		11/28/23 09:28	11/29/23 02:10	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/27/23 11:52	1
4-Chloro-3-methylphenol	<0.157	U H	2.00	0.157	ug/L		11/28/23 09:28	11/29/23 02:10	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/27/23 11:52	1
4-Chloroaniline	<0.149	U H	4.00	0.149	ug/L		11/28/23 09:28	11/29/23 02:10	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 11:52	1
4-Chlorophenyl phenyl ether	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/29/23 02:10	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/27/23 11:52	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-30-D

Lab Sample ID: 860-61847-3

Date Collected: 11/15/23 15:05

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	<0.247	U H	4.00	0.247	ug/L		11/28/23 09:28	11/29/23 02:10	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/27/23 11:52	1
4-Nitroquinoline-1-oxide	<2.15	U H	4.00	2.15	ug/L		11/28/23 09:28	11/29/23 02:10	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/27/23 11:52	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U H	8.00	0.0610	ug/L		11/28/23 09:28	11/29/23 02:10	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/27/23 11:52	1
Acenaphthene	<0.208	U H	2.00	0.208	ug/L		11/28/23 09:28	11/29/23 02:10	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 11:52	1
Acenaphthylene	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/29/23 02:10	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/22/23 13:06	11/27/23 11:52	1
Acetophenone	<0.225	U H	4.00	0.225	ug/L		11/28/23 09:28	11/29/23 02:10	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/27/23 11:52	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U H	4.00	4.00	ug/L		11/28/23 09:28	11/29/23 02:10	1
Aniline	<0.314	U *1	4.00	0.314	ug/L		11/22/23 13:06	11/27/23 11:52	1
Aniline	<0.314	U H	4.00	0.314	ug/L		11/28/23 09:28	11/29/23 02:10	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/27/23 11:52	1
Anthracene	<0.154	U H	2.00	0.154	ug/L		11/28/23 09:28	11/29/23 02:10	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 11:52	1
Aramite, Total	<0.670	U H	4.00	0.670	ug/L		11/28/23 09:28	11/29/23 02:10	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 11:52	1
Benzo[a]anthracene	<0.150	U H	2.00	0.150	ug/L		11/28/23 09:28	11/29/23 02:10	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 11:52	1
Benzo[a]pyrene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/29/23 02:10	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/27/23 11:52	1
Benzo[b]fluoranthene	<0.210	U H	2.00	0.210	ug/L		11/28/23 09:28	11/29/23 02:10	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 11:52	1
Benzo[g,h,i]perylene	<0.143	U H	2.00	0.143	ug/L		11/28/23 09:28	11/29/23 02:10	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/27/23 11:52	1
Benzo[k]fluoranthene	<0.166	U H	2.00	0.166	ug/L		11/28/23 09:28	11/29/23 02:10	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/27/23 11:52	1
Benzyl alcohol	<4.50	U H	8.00	4.50	ug/L		11/28/23 09:28	11/29/23 02:10	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/27/23 11:52	1
Bis(2-chloroethoxy)methane	<0.170	U H	2.00	0.170	ug/L		11/28/23 09:28	11/29/23 02:10	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/27/23 11:52	1
Bis(2-chloroethyl)ether	<0.278	U H	2.00	0.278	ug/L		11/28/23 09:28	11/29/23 02:10	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/27/23 11:52	1
Bis(2-ethylhexyl) phthalate	<0.225	U H	2.00	0.225	ug/L		11/28/23 09:28	11/29/23 02:10	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 11:52	1
Butyl benzyl phthalate	<0.150	U H	2.00	0.150	ug/L		11/28/23 09:28	11/29/23 02:10	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 11:52	1
Chrysene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/29/23 02:10	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 11:52	1
Diallate	<0.602	U H	8.00	0.602	ug/L		11/28/23 09:28	11/29/23 02:10	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 11:52	1
Dibenz(a,h)anthracene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/29/23 02:10	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/22/23 13:06	11/27/23 11:52	1
Dibenzofuran	<0.336	U H	2.00	0.336	ug/L		11/28/23 09:28	11/29/23 02:10	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/27/23 11:52	1
Diethyl phthalate	<0.118	U H	2.00	0.118	ug/L		11/28/23 09:28	11/29/23 02:10	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-30-D

Lab Sample ID: 860-61847-3

Date Collected: 11/15/23 15:05

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/27/23 11:52	1
Dimethoate	<1.70	U H	8.00	1.70	ug/L		11/28/23 09:28	11/29/23 02:10	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 11:52	1
Dimethyl phthalate	<0.143	U H	2.00	0.143	ug/L		11/28/23 09:28	11/29/23 02:10	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/27/23 11:52	1
Di-n-butyl phthalate	<0.800	U H	2.00	0.800	ug/L		11/28/23 09:28	11/29/23 02:10	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/27/23 11:52	1
Di-n-octyl phthalate	<0.169	U H	2.00	0.169	ug/L		11/28/23 09:28	11/29/23 02:10	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/27/23 11:52	1
Dinoseb	<2.00	U H	4.00	2.00	ug/L		11/28/23 09:28	11/29/23 02:10	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/27/23 11:52	1
Disulfoton	<1.39	U H	8.00	1.39	ug/L		11/28/23 09:28	11/29/23 02:10	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 11:52	1
Ethyl methanesulfonate	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/29/23 02:10	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/27/23 11:52	1
Ethyl Parathion	<1.41	U H	4.00	1.41	ug/L		11/28/23 09:28	11/29/23 02:10	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/27/23 11:52	1
Famphur	<8.00	U H	8.00	8.00	ug/L		11/28/23 09:28	11/29/23 02:10	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 11:52	1
Fluoranthene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/29/23 02:10	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/27/23 11:52	1
Fluorene	<0.205	U H	2.00	0.205	ug/L		11/28/23 09:28	11/29/23 02:10	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 11:52	1
Hexachlorobenzene	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/29/23 02:10	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/27/23 11:52	1
Hexachlorobutadiene	<0.252	U H	2.00	0.252	ug/L		11/28/23 09:28	11/29/23 02:10	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/27/23 11:52	1
Hexachlorocyclopentadiene	<0.431	U H	2.00	0.431	ug/L		11/28/23 09:28	11/29/23 02:10	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/22/23 13:06	11/27/23 11:52	1
Hexachloroethane	<0.140	U H	2.00	0.140	ug/L		11/28/23 09:28	11/29/23 02:10	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/27/23 11:52	1
Hexachloropropene	<0.213	U H	4.00	0.213	ug/L		11/28/23 09:28	11/29/23 02:10	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/27/23 11:52	1
Indeno[1,2,3-cd]pyrene	<0.852	U H	2.00	0.852	ug/L		11/28/23 09:28	11/29/23 02:10	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/27/23 11:52	1
Isophorone	<0.168	U H	2.00	0.168	ug/L		11/28/23 09:28	11/29/23 02:10	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 11:52	1
Isosafrole	<2.46	U H	6.00	2.46	ug/L		11/28/23 09:28	11/29/23 02:10	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/27/23 11:52	1
Methapyrilene	<0.181	U H	2.00	0.181	ug/L		11/28/23 09:28	11/29/23 02:10	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/27/23 11:52	1
Methyl methanesulfonate	<0.0610	U H	2.00	0.0610	ug/L		11/28/23 09:28	11/29/23 02:10	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/27/23 11:52	1
Methyl parathion	<1.64	U H	4.00	1.64	ug/L		11/28/23 09:28	11/29/23 02:10	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/22/23 13:06	11/27/23 11:52	1
Naphthalene	<0.423	U H	2.00	0.423	ug/L		11/28/23 09:28	11/29/23 02:10	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/27/23 11:52	1
Nitrobenzene	<0.934	U H	2.00	0.934	ug/L		11/28/23 09:28	11/29/23 02:10	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/27/23 11:52	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-30-D

Lab Sample ID: 860-61847-3

Date Collected: 11/15/23 15:05

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitro-o-toluidine	<1.31	U H	8.00	1.31	ug/L		11/28/23 09:28	11/29/23 02:10	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/27/23 11:52	1
N-Nitrosodiethylamine	<1.54	U H	4.00	1.54	ug/L		11/28/23 09:28	11/29/23 02:10	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 11:52	1
N-Nitrosodimethylamine	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/29/23 02:10	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/27/23 11:52	1
N-Nitrosodi-n-butylamine	<1.54	U H	2.00	1.54	ug/L		11/28/23 09:28	11/29/23 02:10	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/27/23 11:52	1
N-Nitrosodi-n-propylamine	<0.161	U H	2.00	0.161	ug/L		11/28/23 09:28	11/29/23 02:10	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/27/23 11:52	1
N-Nitrosodiphenylamine	<0.155	U H	2.00	0.155	ug/L		11/28/23 09:28	11/29/23 02:10	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 11:52	1
N-Nitrosomethylethylamine	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/29/23 02:10	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 11:52	1
N-Nitrosomorpholine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/29/23 02:10	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 11:52	1
N-Nitrosopiperidine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/29/23 02:10	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 11:52	1
N-Nitrosopyrrolidine	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/29/23 02:10	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 11:52	1
o,o',o"-Triethylphosphorothioate	<0.0579	U H	8.00	0.0579	ug/L		11/28/23 09:28	11/29/23 02:10	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 11:52	1
p-Dimethylamino azobenzene	<0.0579	U H	8.00	0.0579	ug/L		11/28/23 09:28	11/29/23 02:10	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/27/23 11:52	1
Pentachlorobenzene	<1.18	U H	2.00	1.18	ug/L		11/28/23 09:28	11/29/23 02:10	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/27/23 11:52	1
Pentachloronitrobenzene	<1.27	U H	2.00	1.27	ug/L		11/28/23 09:28	11/29/23 02:10	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/27/23 11:52	1
Pentachlorophenol	<0.441	U H	2.00	0.441	ug/L		11/28/23 09:28	11/29/23 02:10	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/27/23 11:52	1
Phenacetin	<1.32	U H	8.00	1.32	ug/L		11/28/23 09:28	11/29/23 02:10	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/27/23 11:52	1
Phenanthrene	<0.176	U H	2.00	0.176	ug/L		11/28/23 09:28	11/29/23 02:10	1
Phenol	0.351	J	4.00	0.202	ug/L		11/22/23 13:06	11/27/23 11:52	1
Phenol	<0.202	U H	4.00	0.202	ug/L		11/28/23 09:28	11/29/23 02:10	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/27/23 11:52	1
Phorate	<1.40	U H	8.00	1.40	ug/L		11/28/23 09:28	11/29/23 02:10	1
p-Phenylene diamine	<10.0	U *-	10.0	10.0	ug/L		11/22/23 13:06	11/27/23 11:52	1
p-Phenylene diamine	<10.0	U H *-	10.0	10.0	ug/L		11/28/23 09:28	11/29/23 02:10	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/27/23 11:52	1
Pronamide	<1.39	U H	4.00	1.39	ug/L		11/28/23 09:28	11/29/23 02:10	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 11:52	1
Pyrene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/29/23 02:10	1
Pyridine	1.41	J B *1	2.00	0.725	ug/L		11/22/23 13:06	11/27/23 11:52	1
Pyridine	<0.725	U H	2.00	0.725	ug/L		11/28/23 09:28	11/29/23 02:10	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/27/23 11:52	1
Safrole, Total	<0.183	U H	4.00	0.183	ug/L		11/28/23 09:28	11/29/23 02:10	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/27/23 11:52	1
Sulfotepp	<1.43	U H	4.00	1.43	ug/L		11/28/23 09:28	11/29/23 02:10	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-30-D

Lab Sample ID: 860-61847-3

Date Collected: 11/15/23 15:05

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thionazin	<1.44	U	8.00	1.44	ug/L	-	11/22/23 13:06	11/27/23 11:52	1
Thionazin	<1.44	U H	8.00	1.44	ug/L	-	11/28/23 09:28	11/29/23 02:10	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L	-	11/22/23 13:06	11/27/23 11:52	1
Aramite Peak 2	<2.74	U H	4.00	2.74	ug/L	-	11/28/23 09:28	11/29/23 02:10	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L	-	11/22/23 13:06	11/27/23 11:52	1
Isosafrole Peak 1	<2.46	U H	6.00	2.46	ug/L	-	11/28/23 09:28	11/29/23 02:10	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L	-	11/22/23 13:06	11/27/23 11:52	1
Diallate Peak 2	<0.602	U H	8.00	0.602	ug/L	-	11/28/23 09:28	11/29/23 02:10	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L	-	11/22/23 13:06	11/27/23 11:52	1
Isosafrole Peak 2	<2.12	U H	6.00	2.12	ug/L	-	11/28/23 09:28	11/29/23 02:10	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L	-	11/22/23 13:06	11/27/23 11:52	1
Diallate Peak 1	<0.675	U H	8.00	0.675	ug/L	-	11/28/23 09:28	11/29/23 02:10	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L	-	11/22/23 13:06	11/27/23 11:52	1
Aramite Peak 1	<0.670	U H	4.00	0.670	ug/L	-	11/28/23 09:28	11/29/23 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	58		31 - 132	11/22/23 13:06	11/27/23 11:52	1
2,4,6-Tribromophenol (Surr)	57		31 - 132	11/28/23 09:28	11/29/23 02:10	1
2-Fluorobiphenyl	73		40 - 130	11/22/23 13:06	11/27/23 11:52	1
2-Fluorobiphenyl	82		40 - 130	11/28/23 09:28	11/29/23 02:10	1
2-Fluorophenol (Surr)	40		21 - 114	11/22/23 13:06	11/27/23 11:52	1
2-Fluorophenol (Surr)	42		21 - 114	11/28/23 09:28	11/29/23 02:10	1
Nitrobenzene-d5 (Surr)	61		37 - 130	11/22/23 13:06	11/27/23 11:52	1
Nitrobenzene-d5 (Surr)	62		37 - 130	11/28/23 09:28	11/29/23 02:10	1
Phenol-d5 (Surr)	25		16 - 117	11/22/23 13:06	11/27/23 11:52	1
Phenol-d5 (Surr)	22		16 - 117	11/28/23 09:28	11/29/23 02:10	1
p-Terphenyl-d14	80		20 - 141	11/22/23 13:06	11/27/23 11:52	1
p-Terphenyl-d14	75		20 - 141	11/28/23 09:28	11/29/23 02:10	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	58.6		40.0	1.82	ug/L	-	11/22/23 13:06	11/28/23 10:52	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	39		31 - 132	11/22/23 13:06	11/28/23 10:52	5
2-Fluorobiphenyl	67		40 - 130	11/22/23 13:06	11/28/23 10:52	5
2-Fluorophenol (Surr)	39		21 - 114	11/22/23 13:06	11/28/23 10:52	5
Nitrobenzene-d5 (Surr)	54		37 - 130	11/22/23 13:06	11/28/23 10:52	5
Phenol-d5 (Surr)	13	S1-	16 - 117	11/22/23 13:06	11/28/23 10:52	5
p-Terphenyl-d14	65		20 - 141	11/22/23 13:06	11/28/23 10:52	5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.168	U	0.639	0.168	ug/L	-	11/20/23 12:55	11/21/23 10:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	119		37 - 133				11/20/23 12:55	11/21/23 10:36	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: RB-02

Lab Sample ID: 860-61847-4

Date Collected: 11/16/23 08:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/18/23 18:55	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/18/23 18:55	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/18/23 18:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/18/23 18:55	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/18/23 18:55	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/18/23 18:55	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/18/23 18:55	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/18/23 18:55	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/18/23 18:55	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/18/23 18:55	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/18/23 18:55	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/18/23 18:55	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/18/23 18:55	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/18/23 18:55	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/18/23 18:55	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/18/23 18:55	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/18/23 18:55	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/18/23 18:55	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/18/23 18:55	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/18/23 18:55	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/18/23 18:55	1
Acetone	<3.07	U	100	3.07	ug/L			11/18/23 18:55	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/18/23 18:55	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/18/23 18:55	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/18/23 18:55	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/18/23 18:55	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/18/23 18:55	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/18/23 18:55	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/18/23 18:55	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/18/23 18:55	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/18/23 18:55	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/18/23 18:55	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/18/23 18:55	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/18/23 18:55	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/18/23 18:55	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/18/23 18:55	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/18/23 18:55	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/18/23 18:55	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/18/23 18:55	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/18/23 18:55	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/18/23 18:55	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/18/23 18:55	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/18/23 18:55	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/18/23 18:55	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/18/23 18:55	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/18/23 18:55	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/18/23 18:55	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/18/23 18:55	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/18/23 18:55	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: RB-02

Lab Sample ID: 860-61847-4

Date Collected: 11/16/23 08:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/18/23 18:55	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/18/23 18:55	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/18/23 18:55	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/18/23 18:55	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/18/23 18:55	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/18/23 18:55	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/18/23 18:55	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/18/23 18:55	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/18/23 18:55	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/18/23 18:55	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/18/23 18:55	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/18/23 18:55	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/18/23 18:55	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/18/23 18:55	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/18/23 18:55	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/18/23 18:55	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/18/23 18:55	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/18/23 18:55	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/18/23 18:55	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/18/23 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		11/18/23 18:55	1
4-Bromofluorobenzene (Surr)	102		74 - 124		11/18/23 18:55	1
Dibromofluoromethane (Surr)	102		75 - 131		11/18/23 18:55	1
Toluene-d8 (Surr)	99		80 - 120		11/18/23 18:55	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 12:13	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/27/23 12:13	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/27/23 12:13	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/22/23 13:06	11/27/23 12:13	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/27/23 12:13	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/27/23 12:13	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/27/23 12:13	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 12:13	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/27/23 12:13	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 12:13	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/27/23 12:13	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/27/23 12:13	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/27/23 12:13	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 12:13	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/27/23 12:13	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 12:13	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/27/23 12:13	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/27/23 12:13	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 12:13	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 12:13	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/27/23 12:13	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: RB-02

Lab Sample ID: 860-61847-4

Date Collected: 11/16/23 08:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/27/23 12:13	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/27/23 12:13	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/22/23 13:06	11/27/23 12:13	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 12:13	1
2-Naphthylamine	<0.595	U *-	8.00	0.595	ug/L		11/22/23 13:06	11/27/23 12:13	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/27/23 12:13	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 12:13	1
2-Picoline	<0.215	U *1	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 12:13	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/27/23 12:13	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/27/23 12:13	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/27/23 12:13	1
3,3'-Dimethylbenzidine	<0.444	U *- *1	8.00	0.444	ug/L		11/22/23 13:06	11/27/23 12:13	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/27/23 12:13	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/27/23 12:13	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/27/23 12:13	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/27/23 12:13	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/27/23 12:13	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/27/23 12:13	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/27/23 12:13	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 12:13	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/27/23 12:13	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/27/23 12:13	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/27/23 12:13	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/27/23 12:13	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 12:13	1
Acetophenone	0.247	J	4.00	0.225	ug/L		11/22/23 13:06	11/27/23 12:13	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/27/23 12:13	1
Aniline	<0.314	U *1	4.00	0.314	ug/L		11/22/23 13:06	11/27/23 12:13	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/27/23 12:13	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 12:13	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 12:13	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 12:13	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/27/23 12:13	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 12:13	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/27/23 12:13	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/27/23 12:13	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/27/23 12:13	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/27/23 12:13	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/27/23 12:13	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 12:13	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 12:13	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 12:13	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 12:13	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/22/23 13:06	11/27/23 12:13	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/27/23 12:13	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/27/23 12:13	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 12:13	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/27/23 12:13	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/27/23 12:13	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: RB-02

Lab Sample ID: 860-61847-4

Date Collected: 11/16/23 08:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/27/23 12:13	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/22/23 13:06	11/27/23 12:13	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/27/23 12:13	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 12:13	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/27/23 12:13	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/27/23 12:13	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 12:13	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/27/23 12:13	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 12:13	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/27/23 12:13	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/27/23 12:13	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/22/23 13:06	11/27/23 12:13	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/27/23 12:13	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/27/23 12:13	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/27/23 12:13	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 12:13	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/27/23 12:13	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/27/23 12:13	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/27/23 12:13	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/22/23 13:06	11/27/23 12:13	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/27/23 12:13	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/27/23 12:13	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/27/23 12:13	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 12:13	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/27/23 12:13	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/27/23 12:13	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/27/23 12:13	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 12:13	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 12:13	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 12:13	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 12:13	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 12:13	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 12:13	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/27/23 12:13	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/27/23 12:13	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/27/23 12:13	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/27/23 12:13	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/27/23 12:13	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/22/23 13:06	11/27/23 12:13	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/27/23 12:13	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/22/23 13:06	11/27/23 12:13	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/27/23 12:13	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 12:13	1
Pyridine	1.50	J B *1	2.00	0.725	ug/L		11/22/23 13:06	11/27/23 12:13	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/27/23 12:13	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/27/23 12:13	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/27/23 12:13	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/27/23 12:13	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 12:13	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: RB-02

Lab Sample ID: 860-61847-4

Date Collected: 11/16/23 08:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 12:13	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/22/23 13:06	11/27/23 12:13	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/27/23 12:13	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 12:13	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		31 - 132				11/22/23 13:06	11/27/23 12:13	1
2-Fluorobiphenyl	72		40 - 130				11/22/23 13:06	11/27/23 12:13	1
2-Fluorophenol (Surr)	46		21 - 114				11/22/23 13:06	11/27/23 12:13	1
Nitrobenzene-d5 (Surr)	64		37 - 130				11/22/23 13:06	11/27/23 12:13	1
Phenol-d5 (Surr)	29		16 - 117				11/22/23 13:06	11/27/23 12:13	1
p-Terphenyl-d14	86		20 - 141				11/22/23 13:06	11/27/23 12:13	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U H	2.00	0.428	ug/L		11/28/23 09:28	11/28/23 22:21	1
1,2,4,5-Tetrachlorobenzene	<0.672	U H	2.00	0.672	ug/L		11/28/23 09:28	11/28/23 22:21	1
1,2,4-Trichlorobenzene	<0.680	U H	2.00	0.680	ug/L		11/28/23 09:28	11/28/23 22:21	1
1,2-Dichlorobenzene	<0.296	U H	2.00	0.296	ug/L		11/28/23 09:28	11/28/23 22:21	1
1,3,5-Trinitrobenzene	<1.43	U H	2.00	1.43	ug/L		11/28/23 09:28	11/28/23 22:21	1
1,3-Dichlorobenzene	<0.350	U H	2.00	0.350	ug/L		11/28/23 09:28	11/28/23 22:21	1
1,3-Dinitrobenzene	<0.112	U H	2.00	0.112	ug/L		11/28/23 09:28	11/28/23 22:21	1
1,4-Dichlorobenzene	<0.428	U H	2.00	0.428	ug/L		11/28/23 09:28	11/28/23 22:21	1
1,4-Naphthoquinone	<1.85	U H	8.00	1.85	ug/L		11/28/23 09:28	11/28/23 22:21	1
1-Naphthylamine	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/28/23 22:21	1
2,2'-oxybis[1-chloropropane]	<0.139	U H	2.00	0.139	ug/L		11/28/23 09:28	11/28/23 22:21	1
2,3,4,6-Tetrachlorophenol	<0.174	U H	2.00	0.174	ug/L		11/28/23 09:28	11/28/23 22:21	1
2,4,5-Trichlorophenol	<0.108	U H	2.00	0.108	ug/L		11/28/23 09:28	11/28/23 22:21	1
2,4,6-Trichlorophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/28/23 22:21	1
2,4-Dichlorophenol	<0.115	U H	2.00	0.115	ug/L		11/28/23 09:28	11/28/23 22:21	1
2,4-Dimethylphenol	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 22:21	1
2,4-Dinitrophenol	<1.46	U H	8.00	1.46	ug/L		11/28/23 09:28	11/28/23 22:21	1
2,4-Dinitrotoluene	<0.127	U H	2.00	0.127	ug/L		11/28/23 09:28	11/28/23 22:21	1
2,6-Dichlorophenol	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/28/23 22:21	1
2,6-Dinitrotoluene	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/28/23 22:21	1
2-Acetylaminofluorene	<1.52	U H	8.00	1.52	ug/L		11/28/23 09:28	11/28/23 22:21	1
2-Chloronaphthalene	<1.09	U H	8.00	1.09	ug/L		11/28/23 09:28	11/28/23 22:21	1
2-Chlorophenol	<0.0135	U H	2.00	0.0135	ug/L		11/28/23 09:28	11/28/23 22:21	1
2-Methylnaphthalene	<0.480	U H	2.00	0.480	ug/L		11/28/23 09:28	11/28/23 22:21	1
2-Methylphenol	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/28/23 22:21	1
2-Naphthylamine	<0.595	U H	8.00	0.595	ug/L		11/28/23 09:28	11/28/23 22:21	1
2-Nitroaniline	<0.163	U H	4.00	0.163	ug/L		11/28/23 09:28	11/28/23 22:21	1
2-Nitrophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/28/23 22:21	1
2-Picoline	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/28/23 22:21	1
2-Toluidine	<0.934	U H	8.00	0.934	ug/L		11/28/23 09:28	11/28/23 22:21	1
3 & 4 Methylphenol	<0.163	U H	2.00	0.163	ug/L		11/28/23 09:28	11/28/23 22:21	1
3,3'-Dichlorobenzidine	<0.220	U H	4.00	0.220	ug/L		11/28/23 09:28	11/28/23 22:21	1
3,3'-Dimethylbenzidine	<0.444	U H *	8.00	0.444	ug/L		11/28/23 09:28	11/28/23 22:21	1
3-Methylcholanthrene	<0.159	U H	8.00	0.159	ug/L		11/28/23 09:28	11/28/23 22:21	1
3-Nitroaniline	<0.344	U H	2.00	0.344	ug/L		11/28/23 09:28	11/28/23 22:21	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: RB-02

Lab Sample ID: 860-61847-4

Date Collected: 11/16/23 08:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	<0.736	U H	8.00	0.736	ug/L		11/28/23 09:28	11/28/23 22:21	1
4-Aminobiphenyl	<0.297	U H	8.00	0.297	ug/L		11/28/23 09:28	11/28/23 22:21	1
4-Bromophenyl phenyl ether	<0.167	U H	2.00	0.167	ug/L		11/28/23 09:28	11/28/23 22:21	1
4-Chloro-3-methylphenol	<0.157	U H	2.00	0.157	ug/L		11/28/23 09:28	11/28/23 22:21	1
4-Chloroaniline	<0.149	U H	4.00	0.149	ug/L		11/28/23 09:28	11/28/23 22:21	1
4-Chlorophenyl phenyl ether	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/28/23 22:21	1
4-Nitroaniline	<0.247	U H	4.00	0.247	ug/L		11/28/23 09:28	11/28/23 22:21	1
4-Nitroquinoline-1-oxide	<2.15	U H	4.00	2.15	ug/L		11/28/23 09:28	11/28/23 22:21	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U H	8.00	0.0610	ug/L		11/28/23 09:28	11/28/23 22:21	1
Acenaphthene	<0.208	U H	2.00	0.208	ug/L		11/28/23 09:28	11/28/23 22:21	1
Acenaphthylene	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/28/23 22:21	1
Acetophenone	<0.225	U H	4.00	0.225	ug/L		11/28/23 09:28	11/28/23 22:21	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U H	4.00	4.00	ug/L		11/28/23 09:28	11/28/23 22:21	1
Aniline	<0.314	U H	4.00	0.314	ug/L		11/28/23 09:28	11/28/23 22:21	1
Anthracene	<0.154	U H	2.00	0.154	ug/L		11/28/23 09:28	11/28/23 22:21	1
Aramite, Total	<0.670	U H	4.00	0.670	ug/L		11/28/23 09:28	11/28/23 22:21	1
Benzo[a]anthracene	<0.150	U H	2.00	0.150	ug/L		11/28/23 09:28	11/28/23 22:21	1
Benzo[a]pyrene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 22:21	1
Benzo[b]fluoranthene	<0.210	U H	2.00	0.210	ug/L		11/28/23 09:28	11/28/23 22:21	1
Benzo[g,h,i]perylene	<0.143	U H	2.00	0.143	ug/L		11/28/23 09:28	11/28/23 22:21	1
Benzo[k]fluoranthene	<0.166	U H	2.00	0.166	ug/L		11/28/23 09:28	11/28/23 22:21	1
Benzyl alcohol	<4.50	U H	8.00	4.50	ug/L		11/28/23 09:28	11/28/23 22:21	1
Bis(2-chloroethoxy)methane	<0.170	U H	2.00	0.170	ug/L		11/28/23 09:28	11/28/23 22:21	1
Bis(2-chloroethyl)ether	<0.278	U H	2.00	0.278	ug/L		11/28/23 09:28	11/28/23 22:21	1
Bis(2-ethylhexyl) phthalate	<0.225	U H	2.00	0.225	ug/L		11/28/23 09:28	11/28/23 22:21	1
Butyl benzyl phthalate	<0.150	U H	2.00	0.150	ug/L		11/28/23 09:28	11/28/23 22:21	1
Chrysene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/28/23 22:21	1
Diallate	<0.602	U H	8.00	0.602	ug/L		11/28/23 09:28	11/28/23 22:21	1
Dibenz(a,h)anthracene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 22:21	1
Dibenzofuran	<0.336	U H	2.00	0.336	ug/L		11/28/23 09:28	11/28/23 22:21	1
Diethyl phthalate	<0.118	U H	2.00	0.118	ug/L		11/28/23 09:28	11/28/23 22:21	1
Dimethoate	<1.70	U H	8.00	1.70	ug/L		11/28/23 09:28	11/28/23 22:21	1
Dimethyl phthalate	<0.143	U H	2.00	0.143	ug/L		11/28/23 09:28	11/28/23 22:21	1
Di-n-butyl phthalate	<0.800	U H	2.00	0.800	ug/L		11/28/23 09:28	11/28/23 22:21	1
Di-n-octyl phthalate	<0.169	U H	2.00	0.169	ug/L		11/28/23 09:28	11/28/23 22:21	1
Dinoseb	<2.00	U H	4.00	2.00	ug/L		11/28/23 09:28	11/28/23 22:21	1
Diphenyl ether	0.391	J H	8.00	0.364	ug/L		11/28/23 09:28	11/28/23 22:21	1
Disulfoton	<1.39	U H	8.00	1.39	ug/L		11/28/23 09:28	11/28/23 22:21	1
Ethyl methanesulfonate	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/28/23 22:21	1
Ethyl Parathion	<1.41	U H	4.00	1.41	ug/L		11/28/23 09:28	11/28/23 22:21	1
Famphur	<8.00	U H	8.00	8.00	ug/L		11/28/23 09:28	11/28/23 22:21	1
Fluoranthene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 22:21	1
Fluorene	<0.205	U H	2.00	0.205	ug/L		11/28/23 09:28	11/28/23 22:21	1
Hexachlorobenzene	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/28/23 22:21	1
Hexachlorobutadiene	<0.252	U H	2.00	0.252	ug/L		11/28/23 09:28	11/28/23 22:21	1
Hexachlorocyclopentadiene	<0.431	U H	2.00	0.431	ug/L		11/28/23 09:28	11/28/23 22:21	1
Hexachloroethane	<0.140	U H	2.00	0.140	ug/L		11/28/23 09:28	11/28/23 22:21	1
Hexachloropropene	<0.213	U H	4.00	0.213	ug/L		11/28/23 09:28	11/28/23 22:21	1
Indeno[1,2,3-cd]pyrene	<0.852	U H	2.00	0.852	ug/L		11/28/23 09:28	11/28/23 22:21	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: RB-02

Lab Sample ID: 860-61847-4

Date Collected: 11/16/23 08:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<0.168	U H	2.00	0.168	ug/L		11/28/23 09:28	11/28/23 22:21	1
Isosafrole	<2.46	U H	6.00	2.46	ug/L		11/28/23 09:28	11/28/23 22:21	1
Methapyrilene	<0.181	U H	2.00	0.181	ug/L		11/28/23 09:28	11/28/23 22:21	1
Methyl methanesulfonate	<0.0610	U H	2.00	0.0610	ug/L		11/28/23 09:28	11/28/23 22:21	1
Methyl parathion	<1.64	U H	4.00	1.64	ug/L		11/28/23 09:28	11/28/23 22:21	1
Naphthalene	<0.423	U H	2.00	0.423	ug/L		11/28/23 09:28	11/28/23 22:21	1
Nitrobenzene	<0.934	U H	2.00	0.934	ug/L		11/28/23 09:28	11/28/23 22:21	1
N-Nitro-o-toluidine	<1.31	U H	8.00	1.31	ug/L		11/28/23 09:28	11/28/23 22:21	1
N-Nitrosodiethylamine	<1.54	U H	4.00	1.54	ug/L		11/28/23 09:28	11/28/23 22:21	1
N-Nitrosodimethylamine	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/28/23 22:21	1
N-Nitrosodi-n-butylamine	<1.54	U H	2.00	1.54	ug/L		11/28/23 09:28	11/28/23 22:21	1
N-Nitrosodi-n-propylamine	<0.161	U H	2.00	0.161	ug/L		11/28/23 09:28	11/28/23 22:21	1
N-Nitrosodiphenylamine	<0.155	U H	2.00	0.155	ug/L		11/28/23 09:28	11/28/23 22:21	1
N-Nitrosomethylethylamine	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/28/23 22:21	1
N-Nitrosomorpholine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/28/23 22:21	1
N-Nitrosopiperidine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/28/23 22:21	1
N-Nitrosopyrrolidine	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/28/23 22:21	1
o,o',o"-Triethylphosphorothioate	<0.0579	U H	8.00	0.0579	ug/L		11/28/23 09:28	11/28/23 22:21	1
p-Dimethylamino azobenzene	<0.0579	U H	8.00	0.0579	ug/L		11/28/23 09:28	11/28/23 22:21	1
Pentachlorobenzene	<1.18	U H	2.00	1.18	ug/L		11/28/23 09:28	11/28/23 22:21	1
Pentachloronitrobenzene	<1.27	U H	2.00	1.27	ug/L		11/28/23 09:28	11/28/23 22:21	1
Pentachlorophenol	<0.441	U H	2.00	0.441	ug/L		11/28/23 09:28	11/28/23 22:21	1
Phenacetin	<1.32	U H	8.00	1.32	ug/L		11/28/23 09:28	11/28/23 22:21	1
Phenanthrene	<0.176	U H	2.00	0.176	ug/L		11/28/23 09:28	11/28/23 22:21	1
Phenol	<0.202	U H	4.00	0.202	ug/L		11/28/23 09:28	11/28/23 22:21	1
Phorate	<1.40	U H	8.00	1.40	ug/L		11/28/23 09:28	11/28/23 22:21	1
p-Phenylene diamine	<10.0	U H *-	10.0	10.0	ug/L		11/28/23 09:28	11/28/23 22:21	1
Pronamide	<1.39	U H	4.00	1.39	ug/L		11/28/23 09:28	11/28/23 22:21	1
Pyrene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/28/23 22:21	1
Pyridine	<0.725	U H	2.00	0.725	ug/L		11/28/23 09:28	11/28/23 22:21	1
Safrole, Total	<0.183	U H	4.00	0.183	ug/L		11/28/23 09:28	11/28/23 22:21	1
Sulfotepp	<1.43	U H	4.00	1.43	ug/L		11/28/23 09:28	11/28/23 22:21	1
Thionazin	<1.44	U H	8.00	1.44	ug/L		11/28/23 09:28	11/28/23 22:21	1
Aramite Peak 2	<2.74	U H	4.00	2.74	ug/L		11/28/23 09:28	11/28/23 22:21	1
Isosafrole Peak 1	<2.46	U H	6.00	2.46	ug/L		11/28/23 09:28	11/28/23 22:21	1
Diallate Peak 2	<0.602	U H	8.00	0.602	ug/L		11/28/23 09:28	11/28/23 22:21	1
Isosafrole Peak 2	<2.12	U H	6.00	2.12	ug/L		11/28/23 09:28	11/28/23 22:21	1
Diallate Peak 1	<0.675	U H	8.00	0.675	ug/L		11/28/23 09:28	11/28/23 22:21	1
Aramite Peak 1	<0.670	U H	4.00	0.670	ug/L		11/28/23 09:28	11/28/23 22:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		31 - 132	11/28/23 09:28	11/28/23 22:21	1
2-Fluorobiphenyl	67		40 - 130	11/28/23 09:28	11/28/23 22:21	1
2-Fluorophenol (Surr)	46		21 - 114	11/28/23 09:28	11/28/23 22:21	1
Nitrobenzene-d5 (Surr)	65		37 - 130	11/28/23 09:28	11/28/23 22:21	1
Phenol-d5 (Surr)	24		16 - 117	11/28/23 09:28	11/28/23 22:21	1
p-Terphenyl-d14	99		20 - 141	11/28/23 09:28	11/28/23 22:21	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: RB-02

Date Collected: 11/16/23 08:00

Date Received: 11/17/23 09:23

Lab Sample ID: 860-61847-4

Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.175	U	0.667	0.175	ug/L		11/20/23 12:55	11/21/23 11:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	119		37 - 133				11/20/23 12:55	11/21/23 11:06	1

Client Sample ID: MW-29-S

Date Collected: 11/16/23 08:45

Date Received: 11/17/23 09:23

Lab Sample ID: 860-61847-5

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/18/23 19:15	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/18/23 19:15	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/18/23 19:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/18/23 19:15	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/18/23 19:15	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/18/23 19:15	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/18/23 19:15	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/18/23 19:15	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/18/23 19:15	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/18/23 19:15	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/18/23 19:15	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/18/23 19:15	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/18/23 19:15	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/18/23 19:15	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/18/23 19:15	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/18/23 19:15	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/18/23 19:15	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/18/23 19:15	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/18/23 19:15	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/18/23 19:15	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/18/23 19:15	1
Acetone	<3.07	U	100	3.07	ug/L			11/18/23 19:15	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/18/23 19:15	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/18/23 19:15	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/18/23 19:15	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/18/23 19:15	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/18/23 19:15	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/18/23 19:15	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/18/23 19:15	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/18/23 19:15	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/18/23 19:15	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/18/23 19:15	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/18/23 19:15	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/18/23 19:15	1
Chloroform	20.6		1.00	0.464	ug/L			11/18/23 19:15	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/18/23 19:15	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/18/23 19:15	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/18/23 19:15	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/18/23 19:15	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-S

Lab Sample ID: 860-61847-5

Date Collected: 11/16/23 08:45

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/18/23 19:15	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/18/23 19:15	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/18/23 19:15	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/18/23 19:15	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/18/23 19:15	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/18/23 19:15	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/18/23 19:15	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/18/23 19:15	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/18/23 19:15	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/18/23 19:15	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/18/23 19:15	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/18/23 19:15	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/18/23 19:15	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/18/23 19:15	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/18/23 19:15	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/18/23 19:15	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/18/23 19:15	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/18/23 19:15	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/18/23 19:15	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/18/23 19:15	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/18/23 19:15	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/18/23 19:15	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/18/23 19:15	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/18/23 19:15	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/18/23 19:15	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/18/23 19:15	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/18/23 19:15	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/18/23 19:15	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/18/23 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/18/23 19:15	1
4-Bromofluorobenzene (Surr)	100		74 - 124		11/18/23 19:15	1
Dibromofluoromethane (Surr)	105		75 - 131		11/18/23 19:15	1
Toluene-d8 (Surr)	98		80 - 120		11/18/23 19:15	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	3080		250	44.8	ug/L			11/20/23 16:23	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		11/20/23 16:23	50
4-Bromofluorobenzene (Surr)	102		74 - 124		11/20/23 16:23	50
Dibromofluoromethane (Surr)	106		75 - 131		11/20/23 16:23	50
Toluene-d8 (Surr)	99		80 - 120		11/20/23 16:23	50

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.564	J	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 12:34	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/27/23 12:34	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-S

Lab Sample ID: 860-61847-5

Date Collected: 11/16/23 08:45

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/27/23 12:34	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/22/23 13:06	11/27/23 12:34	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/27/23 12:34	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/27/23 12:34	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/27/23 12:34	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 12:34	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/27/23 12:34	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 12:34	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/27/23 12:34	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/27/23 12:34	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/27/23 12:34	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 12:34	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/27/23 12:34	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 12:34	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/27/23 12:34	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/27/23 12:34	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 12:34	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 12:34	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/27/23 12:34	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/27/23 12:34	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/27/23 12:34	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/22/23 13:06	11/27/23 12:34	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 12:34	1
2-Naphthylamine	<0.595	U *	8.00	0.595	ug/L		11/22/23 13:06	11/27/23 12:34	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/27/23 12:34	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 12:34	1
2-Picoline	<0.215	U *1	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 12:34	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/27/23 12:34	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/27/23 12:34	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/27/23 12:34	1
3,3'-Dimethylbenzidine	<0.444	U * -1	8.00	0.444	ug/L		11/22/23 13:06	11/27/23 12:34	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/27/23 12:34	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/27/23 12:34	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/27/23 12:34	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/27/23 12:34	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/27/23 12:34	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/27/23 12:34	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/27/23 12:34	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 12:34	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/27/23 12:34	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/27/23 12:34	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/27/23 12:34	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/27/23 12:34	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 12:34	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/22/23 13:06	11/27/23 12:34	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/27/23 12:34	1
Aniline	<0.314	U *1	4.00	0.314	ug/L		11/22/23 13:06	11/27/23 12:34	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/27/23 12:34	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 12:34	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-S

Lab Sample ID: 860-61847-5

Date Collected: 11/16/23 08:45

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 12:34	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 12:34	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/27/23 12:34	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 12:34	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/27/23 12:34	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/27/23 12:34	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/27/23 12:34	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/27/23 12:34	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/27/23 12:34	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 12:34	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 12:34	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 12:34	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 12:34	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/22/23 13:06	11/27/23 12:34	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/27/23 12:34	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/27/23 12:34	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 12:34	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/27/23 12:34	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/27/23 12:34	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/27/23 12:34	1
Diphenyl ether	1.75	J	8.00	0.364	ug/L		11/22/23 13:06	11/27/23 12:34	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/27/23 12:34	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 12:34	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/27/23 12:34	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/27/23 12:34	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 12:34	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/27/23 12:34	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 12:34	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/27/23 12:34	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/27/23 12:34	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/22/23 13:06	11/27/23 12:34	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/27/23 12:34	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/27/23 12:34	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/27/23 12:34	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 12:34	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/27/23 12:34	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/27/23 12:34	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/27/23 12:34	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/22/23 13:06	11/27/23 12:34	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/27/23 12:34	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/27/23 12:34	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/27/23 12:34	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 12:34	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/27/23 12:34	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/27/23 12:34	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/27/23 12:34	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 12:34	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 12:34	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 12:34	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-S

Lab Sample ID: 860-61847-5

Date Collected: 11/16/23 08:45

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 12:34	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 12:34	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 12:34	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/27/23 12:34	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/27/23 12:34	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/27/23 12:34	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/27/23 12:34	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/27/23 12:34	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/22/23 13:06	11/27/23 12:34	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/27/23 12:34	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/22/23 13:06	11/27/23 12:34	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/27/23 12:34	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 12:34	1
Pyridine	1.37	J B *1	2.00	0.725	ug/L		11/22/23 13:06	11/27/23 12:34	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/27/23 12:34	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/27/23 12:34	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/27/23 12:34	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/27/23 12:34	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 12:34	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 12:34	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/22/23 13:06	11/27/23 12:34	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/27/23 12:34	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	59		31 - 132	11/22/23 13:06	11/27/23 12:34	1
2-Fluorobiphenyl	64		40 - 130	11/22/23 13:06	11/27/23 12:34	1
2-Fluorophenol (Surr)	40		21 - 114	11/22/23 13:06	11/27/23 12:34	1
Nitrobenzene-d5 (Surr)	55		37 - 130	11/22/23 13:06	11/27/23 12:34	1
Phenol-d5 (Surr)	21		16 - 117	11/22/23 13:06	11/27/23 12:34	1
p-Terphenyl-d14	90		20 - 141	11/22/23 13:06	11/27/23 12:34	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U H	2.00	0.428	ug/L		11/28/23 09:28	11/28/23 22:41	1
1,2,4,5-Tetrachlorobenzene	<0.672	U H	2.00	0.672	ug/L		11/28/23 09:28	11/28/23 22:41	1
1,2,4-Trichlorobenzene	<0.680	U H	2.00	0.680	ug/L		11/28/23 09:28	11/28/23 22:41	1
1,2-Dichlorobenzene	<0.296	U H	2.00	0.296	ug/L		11/28/23 09:28	11/28/23 22:41	1
1,3,5-Trinitrobenzene	<1.43	U H	2.00	1.43	ug/L		11/28/23 09:28	11/28/23 22:41	1
1,3-Dichlorobenzene	<0.350	U H	2.00	0.350	ug/L		11/28/23 09:28	11/28/23 22:41	1
1,3-Dinitrobenzene	<0.112	U H	2.00	0.112	ug/L		11/28/23 09:28	11/28/23 22:41	1
1,4-Dichlorobenzene	<0.428	U H	2.00	0.428	ug/L		11/28/23 09:28	11/28/23 22:41	1
1,4-Naphthoquinone	<1.85	U H	8.00	1.85	ug/L		11/28/23 09:28	11/28/23 22:41	1
1-Naphthylamine	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/28/23 22:41	1
2,2'-oxybis[1-chloropropane]	<0.139	U H	2.00	0.139	ug/L		11/28/23 09:28	11/28/23 22:41	1
2,3,4,6-Tetrachlorophenol	<0.174	U H	2.00	0.174	ug/L		11/28/23 09:28	11/28/23 22:41	1
2,4,5-Trichlorophenol	<0.108	U H	2.00	0.108	ug/L		11/28/23 09:28	11/28/23 22:41	1
2,4,6-Trichlorophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/28/23 22:41	1
2,4-Dichlorophenol	<0.115	U H	2.00	0.115	ug/L		11/28/23 09:28	11/28/23 22:41	1
2,4-Dimethylphenol	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 22:41	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-S

Lab Sample ID: 860-61847-5

Date Collected: 11/16/23 08:45

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	<1.46	U H	8.00	1.46	ug/L		11/28/23 09:28	11/28/23 22:41	1
2,4-Dinitrotoluene	<0.127	U H	2.00	0.127	ug/L		11/28/23 09:28	11/28/23 22:41	1
2,6-Dichlorophenol	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/28/23 22:41	1
2,6-Dinitrotoluene	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/28/23 22:41	1
2-Acetylaminofluorene	<1.52	U H	8.00	1.52	ug/L		11/28/23 09:28	11/28/23 22:41	1
2-Chloronaphthalene	<1.09	U H	8.00	1.09	ug/L		11/28/23 09:28	11/28/23 22:41	1
2-Chlorophenol	<0.0135	U H	2.00	0.0135	ug/L		11/28/23 09:28	11/28/23 22:41	1
2-Methylnaphthalene	<0.480	U H	2.00	0.480	ug/L		11/28/23 09:28	11/28/23 22:41	1
2-Methylphenol	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/28/23 22:41	1
2-Naphthylamine	<0.595	U H	8.00	0.595	ug/L		11/28/23 09:28	11/28/23 22:41	1
2-Nitroaniline	<0.163	U H	4.00	0.163	ug/L		11/28/23 09:28	11/28/23 22:41	1
2-Nitrophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/28/23 22:41	1
2-Picoline	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/28/23 22:41	1
2-Toluidine	<0.934	U H	8.00	0.934	ug/L		11/28/23 09:28	11/28/23 22:41	1
3 & 4 Methylphenol	<0.163	U H	2.00	0.163	ug/L		11/28/23 09:28	11/28/23 22:41	1
3,3'-Dichlorobenzidine	<0.220	U H	4.00	0.220	ug/L		11/28/23 09:28	11/28/23 22:41	1
3,3'-Dimethylbenzidine	<0.444	U H *	8.00	0.444	ug/L		11/28/23 09:28	11/28/23 22:41	1
3-Methylcholanthrene	<0.159	U H	8.00	0.159	ug/L		11/28/23 09:28	11/28/23 22:41	1
3-Nitroaniline	<0.344	U H	2.00	0.344	ug/L		11/28/23 09:28	11/28/23 22:41	1
4,6-Dinitro-2-methylphenol	<0.736	U H	8.00	0.736	ug/L		11/28/23 09:28	11/28/23 22:41	1
4-Aminobiphenyl	<0.297	U H	8.00	0.297	ug/L		11/28/23 09:28	11/28/23 22:41	1
4-Bromophenyl phenyl ether	<0.167	U H	2.00	0.167	ug/L		11/28/23 09:28	11/28/23 22:41	1
4-Chloro-3-methylphenol	<0.157	U H	2.00	0.157	ug/L		11/28/23 09:28	11/28/23 22:41	1
4-Chloroaniline	<0.149	U H	4.00	0.149	ug/L		11/28/23 09:28	11/28/23 22:41	1
4-Chlorophenyl phenyl ether	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/28/23 22:41	1
4-Nitroaniline	<0.247	U H	4.00	0.247	ug/L		11/28/23 09:28	11/28/23 22:41	1
4-Nitroquinoline-1-oxide	<2.15	U H	4.00	2.15	ug/L		11/28/23 09:28	11/28/23 22:41	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U H	8.00	0.0610	ug/L		11/28/23 09:28	11/28/23 22:41	1
Acenaphthene	<0.208	U H	2.00	0.208	ug/L		11/28/23 09:28	11/28/23 22:41	1
Acenaphthylene	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/28/23 22:41	1
Acetophenone	<0.225	U H	4.00	0.225	ug/L		11/28/23 09:28	11/28/23 22:41	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U H	4.00	4.00	ug/L		11/28/23 09:28	11/28/23 22:41	1
Aniline	<0.314	U H	4.00	0.314	ug/L		11/28/23 09:28	11/28/23 22:41	1
Anthracene	<0.154	U H	2.00	0.154	ug/L		11/28/23 09:28	11/28/23 22:41	1
Aramite, Total	<0.670	U H	4.00	0.670	ug/L		11/28/23 09:28	11/28/23 22:41	1
Benzo[a]anthracene	<0.150	U H	2.00	0.150	ug/L		11/28/23 09:28	11/28/23 22:41	1
Benzo[a]pyrene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 22:41	1
Benzo[b]fluoranthene	<0.210	U H	2.00	0.210	ug/L		11/28/23 09:28	11/28/23 22:41	1
Benzo[g,h,i]perylene	<0.143	U H	2.00	0.143	ug/L		11/28/23 09:28	11/28/23 22:41	1
Benzo[k]fluoranthene	<0.166	U H	2.00	0.166	ug/L		11/28/23 09:28	11/28/23 22:41	1
Benzyl alcohol	<4.50	U H	8.00	4.50	ug/L		11/28/23 09:28	11/28/23 22:41	1
Bis(2-chloroethoxy)methane	<0.170	U H	2.00	0.170	ug/L		11/28/23 09:28	11/28/23 22:41	1
Bis(2-chloroethyl)ether	<0.278	U H	2.00	0.278	ug/L		11/28/23 09:28	11/28/23 22:41	1
Bis(2-ethylhexyl) phthalate	<0.225	U H	2.00	0.225	ug/L		11/28/23 09:28	11/28/23 22:41	1
Butyl benzyl phthalate	<0.150	U H	2.00	0.150	ug/L		11/28/23 09:28	11/28/23 22:41	1
Chrysene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/28/23 22:41	1
Diallate	<0.602	U H	8.00	0.602	ug/L		11/28/23 09:28	11/28/23 22:41	1
Dibenz(a,h)anthracene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 22:41	1
Dibenzofuran	<0.336	U H	2.00	0.336	ug/L		11/28/23 09:28	11/28/23 22:41	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-S

Lab Sample ID: 860-61847-5

Date Collected: 11/16/23 08:45

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<0.118	U H	2.00	0.118	ug/L		11/28/23 09:28	11/28/23 22:41	1
Dimethoate	<1.70	U H	8.00	1.70	ug/L		11/28/23 09:28	11/28/23 22:41	1
Dimethyl phthalate	<0.143	U H	2.00	0.143	ug/L		11/28/23 09:28	11/28/23 22:41	1
Di-n-butyl phthalate	<0.800	U H	2.00	0.800	ug/L		11/28/23 09:28	11/28/23 22:41	1
Di-n-octyl phthalate	<0.169	U H	2.00	0.169	ug/L		11/28/23 09:28	11/28/23 22:41	1
Dinoseb	<2.00	U H	4.00	2.00	ug/L		11/28/23 09:28	11/28/23 22:41	1
Diphenyl ether	0.808	J H	8.00	0.364	ug/L		11/28/23 09:28	11/28/23 22:41	1
Disulfoton	<1.39	U H	8.00	1.39	ug/L		11/28/23 09:28	11/28/23 22:41	1
Ethyl methanesulfonate	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/28/23 22:41	1
Ethyl Parathion	<1.41	U H	4.00	1.41	ug/L		11/28/23 09:28	11/28/23 22:41	1
Famphur	<8.00	U H	8.00	8.00	ug/L		11/28/23 09:28	11/28/23 22:41	1
Fluoranthene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 22:41	1
Fluorene	<0.205	U H	2.00	0.205	ug/L		11/28/23 09:28	11/28/23 22:41	1
Hexachlorobenzene	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/28/23 22:41	1
Hexachlorobutadiene	<0.252	U H	2.00	0.252	ug/L		11/28/23 09:28	11/28/23 22:41	1
Hexachlorocyclopentadiene	<0.431	U H	2.00	0.431	ug/L		11/28/23 09:28	11/28/23 22:41	1
Hexachloroethane	<0.140	U H	2.00	0.140	ug/L		11/28/23 09:28	11/28/23 22:41	1
Hexachloropropene	<0.213	U H	4.00	0.213	ug/L		11/28/23 09:28	11/28/23 22:41	1
Indeno[1,2,3-cd]pyrene	<0.852	U H	2.00	0.852	ug/L		11/28/23 09:28	11/28/23 22:41	1
Isophorone	<0.168	U H	2.00	0.168	ug/L		11/28/23 09:28	11/28/23 22:41	1
Isosafrole	<2.46	U H	6.00	2.46	ug/L		11/28/23 09:28	11/28/23 22:41	1
Methapyrilene	<0.181	U H	2.00	0.181	ug/L		11/28/23 09:28	11/28/23 22:41	1
Methyl methanesulfonate	<0.0610	U H	2.00	0.0610	ug/L		11/28/23 09:28	11/28/23 22:41	1
Methyl parathion	<1.64	U H	4.00	1.64	ug/L		11/28/23 09:28	11/28/23 22:41	1
Naphthalene	<0.423	U H	2.00	0.423	ug/L		11/28/23 09:28	11/28/23 22:41	1
Nitrobenzene	<0.934	U H	2.00	0.934	ug/L		11/28/23 09:28	11/28/23 22:41	1
N-Nitro-o-toluidine	<1.31	U H	8.00	1.31	ug/L		11/28/23 09:28	11/28/23 22:41	1
N-Nitrosodiethylamine	<1.54	U H	4.00	1.54	ug/L		11/28/23 09:28	11/28/23 22:41	1
N-Nitrosodimethylamine	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/28/23 22:41	1
N-Nitrosodi-n-butylamine	<1.54	U H	2.00	1.54	ug/L		11/28/23 09:28	11/28/23 22:41	1
N-Nitrosodi-n-propylamine	<0.161	U H	2.00	0.161	ug/L		11/28/23 09:28	11/28/23 22:41	1
N-Nitrosodiphenylamine	<0.155	U H	2.00	0.155	ug/L		11/28/23 09:28	11/28/23 22:41	1
N-Nitrosomethylethylamine	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/28/23 22:41	1
N-Nitrosomorpholine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/28/23 22:41	1
N-Nitrosopiperidine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/28/23 22:41	1
N-Nitrosopyrrolidine	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/28/23 22:41	1
o,o',o"-Triethylphosphorothioate	<0.0579	U H	8.00	0.0579	ug/L		11/28/23 09:28	11/28/23 22:41	1
p-Dimethylamino azobenzene	<0.0579	U H	8.00	0.0579	ug/L		11/28/23 09:28	11/28/23 22:41	1
Pentachlorobenzene	<1.18	U H	2.00	1.18	ug/L		11/28/23 09:28	11/28/23 22:41	1
Pentachloronitrobenzene	<1.27	U H	2.00	1.27	ug/L		11/28/23 09:28	11/28/23 22:41	1
Pentachlorophenol	<0.441	U H	2.00	0.441	ug/L		11/28/23 09:28	11/28/23 22:41	1
Phenacetin	<1.32	U H	8.00	1.32	ug/L		11/28/23 09:28	11/28/23 22:41	1
Phenanthrene	<0.176	U H	2.00	0.176	ug/L		11/28/23 09:28	11/28/23 22:41	1
Phenol	<0.202	U H	4.00	0.202	ug/L		11/28/23 09:28	11/28/23 22:41	1
Phorate	<1.40	U H	8.00	1.40	ug/L		11/28/23 09:28	11/28/23 22:41	1
p-Phenylene diamine	<10.0	U H *-	10.0	10.0	ug/L		11/28/23 09:28	11/28/23 22:41	1
Pronamide	<1.39	U H	4.00	1.39	ug/L		11/28/23 09:28	11/28/23 22:41	1
Pyrene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/28/23 22:41	1
Pyridine	<0.725	U H	2.00	0.725	ug/L		11/28/23 09:28	11/28/23 22:41	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-S

Lab Sample ID: 860-61847-5

Date Collected: 11/16/23 08:45

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Safrole, Total	<0.183	U H	4.00	0.183	ug/L		11/28/23 09:28	11/28/23 22:41	1
Sulfotepp	<1.43	U H	4.00	1.43	ug/L		11/28/23 09:28	11/28/23 22:41	1
Thionazin	<1.44	U H	8.00	1.44	ug/L		11/28/23 09:28	11/28/23 22:41	1
Aramite Peak 2	<2.74	U H	4.00	2.74	ug/L		11/28/23 09:28	11/28/23 22:41	1
Isosafrole Peak 1	<2.46	U H	6.00	2.46	ug/L		11/28/23 09:28	11/28/23 22:41	1
Diallate Peak 2	<0.602	U H	8.00	0.602	ug/L		11/28/23 09:28	11/28/23 22:41	1
Isosafrole Peak 2	<2.12	U H	6.00	2.12	ug/L		11/28/23 09:28	11/28/23 22:41	1
Diallate Peak 1	<0.675	U H	8.00	0.675	ug/L		11/28/23 09:28	11/28/23 22:41	1
Aramite Peak 1	<0.670	U H	4.00	0.670	ug/L		11/28/23 09:28	11/28/23 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	66		31 - 132	11/28/23 09:28	11/28/23 22:41	1
2-Fluorobiphenyl	70		40 - 130	11/28/23 09:28	11/28/23 22:41	1
2-Fluorophenol (Surr)	42		21 - 114	11/28/23 09:28	11/28/23 22:41	1
Nitrobenzene-d5 (Surr)	59		37 - 130	11/28/23 09:28	11/28/23 22:41	1
Phenol-d5 (Surr)	23		16 - 117	11/28/23 09:28	11/28/23 22:41	1
p-Terphenyl-d14	112		20 - 141	11/28/23 09:28	11/28/23 22:41	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.175	U	0.667	0.175	ug/L		11/20/23 12:55	11/21/23 11:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	121		37 - 133				11/20/23 12:55	11/21/23 11:35	1

Client Sample ID: MW-28-S

Lab Sample ID: 860-61847-6

Date Collected: 11/16/23 09:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<322	U	500	322	ug/L			11/18/23 19:56	500
1,1,1-Trichloroethane	<293	U	2500	293	ug/L			11/18/23 19:56	500
1,1,2,2-Tetrachloroethane	<235	U	500	235	ug/L			11/18/23 19:56	500
1,1,2-Trichloro-1,2,2-trifluoroethane	<555	U	5000	555	ug/L			11/18/23 19:56	500
1,1,2-Trichloroethane	<206	U	500	206	ug/L			11/18/23 19:56	500
1,1-Dichloroethane	<318	U	500	318	ug/L			11/18/23 19:56	500
1,1-Dichloroethene	<369	U	500	369	ug/L			11/18/23 19:56	500
1,2,3-Trichloropropane	<235	U	500	235	ug/L			11/18/23 19:56	500
1,2,4-Trimethylbenzene	<209	U	500	209	ug/L			11/18/23 19:56	500
1,2-Dibromo-3-Chloropropane	<336	U	2500	336	ug/L			11/18/23 19:56	500
1,2-Dibromoethane	<500	U	2500	500	ug/L			11/18/23 19:56	500
1,2-Dichloroethane	<186	U	500	186	ug/L			11/18/23 19:56	500
1,2-Dichloropropane	<278	U	2500	278	ug/L			11/18/23 19:56	500
1,3,5-Trimethylbenzene	<206	U	500	206	ug/L			11/18/23 19:56	500
1,3-Butadiene	<284	U	500	284	ug/L			11/18/23 19:56	500
2,2,4-Trimethylpentane	<250	U	2500	250	ug/L			11/18/23 19:56	500
2-Butanone (MEK)	<4140	U	25000	4140	ug/L			11/18/23 19:56	500
2-Hexanone (MBK)	<3720	U	25000	3720	ug/L			11/18/23 19:56	500
2-Propanol	<2610	U	5000	2610	ug/L			11/18/23 19:56	500
3-Chloropropene (Allyl Chloride)	<299	U	2500	299	ug/L			11/18/23 19:56	500

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-28-S

Lab Sample ID: 860-61847-6

Date Collected: 11/16/23 09:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	<3750	U	25000	3750	ug/L			11/18/23 19:56	500
Acetone	<1530	U	50000	1530	ug/L			11/18/23 19:56	500
Acetonitrile	<7300	U	50000	7300	ug/L			11/18/23 19:56	500
Acrolein	<5560	U	25000	5560	ug/L			11/18/23 19:56	500
Acrylonitrile	<7160	U	25000	7160	ug/L			11/18/23 19:56	500
alpha-Chlorotoluene	<1130	U	2500	1130	ug/L			11/18/23 19:56	500
Benzene	857		500	230	ug/L			11/18/23 19:56	500
Bromodichloromethane	<276	U	500	276	ug/L			11/18/23 19:56	500
Bromoform	<317	U	2500	317	ug/L			11/18/23 19:56	500
Bromomethane	<710	U	2500	710	ug/L			11/18/23 19:56	500
Carbon disulfide	<825	U	2500	825	ug/L			11/18/23 19:56	500
Carbon tetrachloride	64400		2500	448	ug/L			11/18/23 19:56	500
Chlorobenzene	<228	U	500	228	ug/L			11/18/23 19:56	500
Chlorodibromomethane	<274	U	2500	274	ug/L			11/18/23 19:56	500
Chloroethane	<992	U	5000	992	ug/L			11/18/23 19:56	500
Chloroform	9470		500	232	ug/L			11/18/23 19:56	500
Chloromethane	<1020	U	5000	1020	ug/L			11/18/23 19:56	500
Chloroprene	<299	U	2500	299	ug/L			11/18/23 19:56	500
cis-1,2-Dichloroethene	<229	U	500	229	ug/L			11/18/23 19:56	500
cis-1,3-Dichloropropene	<534	U	2500	534	ug/L			11/18/23 19:56	500
Cumene (isopropylbenzene)	<296	U	500	296	ug/L			11/18/23 19:56	500
Cyclohexane	<643	U	2500	643	ug/L			11/18/23 19:56	500
Dibromomethane	<179	U	500	179	ug/L			11/18/23 19:56	500
Dichlorodifluoromethane	<393	U	500	393	ug/L			11/18/23 19:56	500
Ethyl methacrylate	<559	U	2500	559	ug/L			11/18/23 19:56	500
Ethylbenzene	<193	U	500	193	ug/L			11/18/23 19:56	500
Hexane	<259	U	2500	259	ug/L			11/18/23 19:56	500
Iodomethane	<3260	U	10000	3260	ug/L			11/18/23 19:56	500
Isobutanol	<8550	U	25000	8550	ug/L			11/18/23 19:56	500
Methacrylonitrile	<1360	U	5000	1360	ug/L			11/18/23 19:56	500
Methyl methacrylate	<1130	U	5000	1130	ug/L			11/18/23 19:56	500
Methyl tert-butyl ether	<696	U	2500	696	ug/L			11/18/23 19:56	500
Methylene Chloride	<863	U	2500	863	ug/L			11/18/23 19:56	500
Propionitrile	<1670	U	5000	1670	ug/L			11/18/23 19:56	500
Propylbenzene	<215	U	500	215	ug/L			11/18/23 19:56	500
Styrene	<310	U	500	310	ug/L			11/18/23 19:56	500
Tetrachloroethene	<328	U	500	328	ug/L			11/18/23 19:56	500
Tetrahydrofuran	<917	U	5000	917	ug/L			11/18/23 19:56	500
Toluene	<238	U	500	238	ug/L			11/18/23 19:56	500
trans-1,2-Dichloroethene	<184	U	500	184	ug/L			11/18/23 19:56	500
trans-1,3-Dichloropropene	<634	U	2500	634	ug/L			11/18/23 19:56	500
trans-1,4-Dichloro-2-butene	<675	U	5000	675	ug/L			11/18/23 19:56	500
Trichloroethene	<750	U	2500	750	ug/L			11/18/23 19:56	500
Trichlorofluoromethane	<280	U	500	280	ug/L			11/18/23 19:56	500
Vinyl acetate	<1070	U	10000	1070	ug/L			11/18/23 19:56	500
Vinyl chloride	<214	U	1000	214	ug/L			11/18/23 19:56	500
Xylenes, Total	<620	U	5000	620	ug/L			11/18/23 19:56	500
m,p-Xylenes	<0.620	U	5.00	0.620	mg/L			11/18/23 19:56	500
o-Xylene	<0.251	U	0.500	0.251	mg/L			11/18/23 19:56	500

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-28-S

Lab Sample ID: 860-61847-6

Date Collected: 11/16/23 09:00

Matrix: Water

Date Received: 11/17/23 09:23

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/18/23 19:56	500
4-Bromofluorobenzene (Surr)	100		74 - 124		11/18/23 19:56	500
Dibromofluoromethane (Surr)	104		75 - 131		11/18/23 19:56	500
Toluene-d8 (Surr)	97		80 - 120		11/18/23 19:56	500

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/27/23 12:54	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/27/23 12:54	1
1,2-Dichlorobenzene	1.49	J	2.00	0.296	ug/L		11/22/23 13:06	11/27/23 12:54	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/27/23 12:54	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/27/23 12:54	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/27/23 12:54	1
1,4-Dichlorobenzene	2.18		2.00	0.428	ug/L		11/22/23 13:06	11/27/23 12:54	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/27/23 12:54	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 12:54	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/27/23 12:54	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/27/23 12:54	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/27/23 12:54	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 12:54	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/27/23 12:54	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 12:54	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/27/23 12:54	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/27/23 12:54	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 12:54	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 12:54	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/27/23 12:54	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/27/23 12:54	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/27/23 12:54	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/22/23 13:06	11/27/23 12:54	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 12:54	1
2-Naphthylamine	<0.595	U *	8.00	0.595	ug/L		11/22/23 13:06	11/27/23 12:54	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/27/23 12:54	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 12:54	1
2-Picoline	<0.215	U *1	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 12:54	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/27/23 12:54	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/27/23 12:54	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/27/23 12:54	1
3,3'-Dimethylbenzidine	<0.444	U * - *1	8.00	0.444	ug/L		11/22/23 13:06	11/27/23 12:54	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/27/23 12:54	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/27/23 12:54	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/27/23 12:54	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/27/23 12:54	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/27/23 12:54	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/27/23 12:54	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/27/23 12:54	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 12:54	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/27/23 12:54	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/27/23 12:54	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/27/23 12:54	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-28-S

Lab Sample ID: 860-61847-6

Date Collected: 11/16/23 09:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/27/23 12:54	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 12:54	1
Acetophenone	1.50	J	4.00	0.225	ug/L		11/22/23 13:06	11/27/23 12:54	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/27/23 12:54	1
Aniline	<0.314	U *1	4.00	0.314	ug/L		11/22/23 13:06	11/27/23 12:54	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/27/23 12:54	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 12:54	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 12:54	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 12:54	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/27/23 12:54	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 12:54	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/27/23 12:54	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/27/23 12:54	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/27/23 12:54	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/27/23 12:54	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/27/23 12:54	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 12:54	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 12:54	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 12:54	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 12:54	1
Dibenzofuran	1.20	J	2.00	0.336	ug/L		11/22/23 13:06	11/27/23 12:54	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/27/23 12:54	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/27/23 12:54	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 12:54	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/27/23 12:54	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/27/23 12:54	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/27/23 12:54	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/27/23 12:54	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 12:54	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/27/23 12:54	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/27/23 12:54	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 12:54	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/27/23 12:54	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 12:54	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/27/23 12:54	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/27/23 12:54	1
Hexachloroethane	2.70		2.00	0.140	ug/L		11/22/23 13:06	11/27/23 12:54	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/27/23 12:54	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/27/23 12:54	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/27/23 12:54	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 12:54	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/27/23 12:54	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/27/23 12:54	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/27/23 12:54	1
Naphthalene	5.32		2.00	0.423	ug/L		11/22/23 13:06	11/27/23 12:54	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/27/23 12:54	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/27/23 12:54	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/27/23 12:54	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 12:54	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-28-S

Lab Sample ID: 860-61847-6

Date Collected: 11/16/23 09:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/27/23 12:54	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/27/23 12:54	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/27/23 12:54	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 12:54	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 12:54	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 12:54	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 12:54	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 12:54	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 12:54	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/27/23 12:54	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/27/23 12:54	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/27/23 12:54	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/27/23 12:54	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/27/23 12:54	1
Phenol	45.9		4.00	0.202	ug/L		11/22/23 13:06	11/27/23 12:54	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/27/23 12:54	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/22/23 13:06	11/27/23 12:54	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/27/23 12:54	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 12:54	1
Pyridine	1.53	J B *1	2.00	0.725	ug/L		11/22/23 13:06	11/27/23 12:54	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/27/23 12:54	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/27/23 12:54	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/27/23 12:54	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/27/23 12:54	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 12:54	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 12:54	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/22/23 13:06	11/27/23 12:54	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/27/23 12:54	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		31 - 132	11/22/23 13:06	11/27/23 12:54	1
2-Fluorobiphenyl	77		40 - 130	11/22/23 13:06	11/27/23 12:54	1
2-Fluorophenol (Surr)	41		21 - 114	11/22/23 13:06	11/27/23 12:54	1
Nitrobenzene-d5 (Surr)	45		37 - 130	11/22/23 13:06	11/27/23 12:54	1
Phenol-d5 (Surr)	32		16 - 117	11/22/23 13:06	11/27/23 12:54	1
p-Terphenyl-d14	89		20 - 141	11/22/23 13:06	11/27/23 12:54	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	725		100	21.4	ug/L		11/22/23 13:06	11/28/23 12:36	50
Diphenyl ether	2700		400	18.2	ug/L		11/22/23 13:06	11/28/23 12:36	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/22/23 13:06	11/28/23 12:36	50
2-Fluorobiphenyl	53		40 - 130	11/22/23 13:06	11/28/23 12:36	50
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/22/23 13:06	11/28/23 12:36	50
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/22/23 13:06	11/28/23 12:36	50
Phenol-d5 (Surr)	0	S1-	16 - 117	11/22/23 13:06	11/28/23 12:36	50
p-Terphenyl-d14	78		20 - 141	11/22/23 13:06	11/28/23 12:36	50

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-28-S

Lab Sample ID: 860-61847-6

Date Collected: 11/16/23 09:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<0.672	U H	2.00	0.672	ug/L		11/28/23 09:28	11/28/23 23:02	1
1,2,4-Trichlorobenzene	<0.680	U H	2.00	0.680	ug/L		11/28/23 09:28	11/28/23 23:02	1
1,2-Dichlorobenzene	1.18	J H	2.00	0.296	ug/L		11/28/23 09:28	11/28/23 23:02	1
1,3,5-Trinitrobenzene	<1.43	U H	2.00	1.43	ug/L		11/28/23 09:28	11/28/23 23:02	1
1,3-Dichlorobenzene	<0.350	U H	2.00	0.350	ug/L		11/28/23 09:28	11/28/23 23:02	1
1,3-Dinitrobenzene	<0.112	U H	2.00	0.112	ug/L		11/28/23 09:28	11/28/23 23:02	1
1,4-Dichlorobenzene	1.71	J H	2.00	0.428	ug/L		11/28/23 09:28	11/28/23 23:02	1
1,4-Naphthoquinone	<1.85	U H	8.00	1.85	ug/L		11/28/23 09:28	11/28/23 23:02	1
1-Naphthylamine	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/28/23 23:02	1
2,2'-oxybis[1-chloropropane]	<0.139	U H	2.00	0.139	ug/L		11/28/23 09:28	11/28/23 23:02	1
2,3,4,6-Tetrachlorophenol	<0.174	U H	2.00	0.174	ug/L		11/28/23 09:28	11/28/23 23:02	1
2,4,5-Trichlorophenol	<0.108	U H	2.00	0.108	ug/L		11/28/23 09:28	11/28/23 23:02	1
2,4,6-Trichlorophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/28/23 23:02	1
2,4-Dichlorophenol	<0.115	U H	2.00	0.115	ug/L		11/28/23 09:28	11/28/23 23:02	1
2,4-Dimethylphenol	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 23:02	1
2,4-Dinitrophenol	<1.46	U H	8.00	1.46	ug/L		11/28/23 09:28	11/28/23 23:02	1
2,4-Dinitrotoluene	<0.127	U H	2.00	0.127	ug/L		11/28/23 09:28	11/28/23 23:02	1
2,6-Dichlorophenol	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/28/23 23:02	1
2,6-Dinitrotoluene	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/28/23 23:02	1
2-Acetylaminofluorene	<1.52	U H	8.00	1.52	ug/L		11/28/23 09:28	11/28/23 23:02	1
2-Chloronaphthalene	<1.09	U H	8.00	1.09	ug/L		11/28/23 09:28	11/28/23 23:02	1
2-Chlorophenol	<0.0135	U H	2.00	0.0135	ug/L		11/28/23 09:28	11/28/23 23:02	1
2-Methylnaphthalene	<0.480	U H	2.00	0.480	ug/L		11/28/23 09:28	11/28/23 23:02	1
2-Methylphenol	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/28/23 23:02	1
2-Naphthylamine	<0.595	U H	8.00	0.595	ug/L		11/28/23 09:28	11/28/23 23:02	1
2-Nitroaniline	<0.163	U H	4.00	0.163	ug/L		11/28/23 09:28	11/28/23 23:02	1
2-Nitrophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/28/23 23:02	1
2-Picoline	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/28/23 23:02	1
2-Toluidine	<0.934	U H	8.00	0.934	ug/L		11/28/23 09:28	11/28/23 23:02	1
3 & 4 Methylphenol	<0.163	U H	2.00	0.163	ug/L		11/28/23 09:28	11/28/23 23:02	1
3,3'-Dichlorobenzidine	<0.220	U H	4.00	0.220	ug/L		11/28/23 09:28	11/28/23 23:02	1
3,3'-Dimethylbenzidine	<0.444	U H *	8.00	0.444	ug/L		11/28/23 09:28	11/28/23 23:02	1
3-Methylcholanthrene	<0.159	U H	8.00	0.159	ug/L		11/28/23 09:28	11/28/23 23:02	1
3-Nitroaniline	<0.344	U H	2.00	0.344	ug/L		11/28/23 09:28	11/28/23 23:02	1
4,6-Dinitro-2-methylphenol	<0.736	U H	8.00	0.736	ug/L		11/28/23 09:28	11/28/23 23:02	1
4-Aminobiphenyl	<0.297	U H	8.00	0.297	ug/L		11/28/23 09:28	11/28/23 23:02	1
4-Bromophenyl phenyl ether	<0.167	U H	2.00	0.167	ug/L		11/28/23 09:28	11/28/23 23:02	1
4-Chloro-3-methylphenol	<0.157	U H	2.00	0.157	ug/L		11/28/23 09:28	11/28/23 23:02	1
4-Chloroaniline	<0.149	U H	4.00	0.149	ug/L		11/28/23 09:28	11/28/23 23:02	1
4-Chlorophenyl phenyl ether	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/28/23 23:02	1
4-Nitroaniline	<0.247	U H	4.00	0.247	ug/L		11/28/23 09:28	11/28/23 23:02	1
4-Nitroquinoline-1-oxide	<2.15	U H	4.00	2.15	ug/L		11/28/23 09:28	11/28/23 23:02	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U H	8.00	0.0610	ug/L		11/28/23 09:28	11/28/23 23:02	1
Acenaphthene	<0.208	U H	2.00	0.208	ug/L		11/28/23 09:28	11/28/23 23:02	1
Acenaphthylene	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/28/23 23:02	1
Acetophenone	1.26	J H	4.00	0.225	ug/L		11/28/23 09:28	11/28/23 23:02	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U H	4.00	4.00	ug/L		11/28/23 09:28	11/28/23 23:02	1
Aniline	<0.314	U H	4.00	0.314	ug/L		11/28/23 09:28	11/28/23 23:02	1
Anthracene	<0.154	U H	2.00	0.154	ug/L		11/28/23 09:28	11/28/23 23:02	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-28-S

Lab Sample ID: 860-61847-6

Date Collected: 11/16/23 09:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aramite, Total	<0.670	U H	4.00	0.670	ug/L		11/28/23 09:28	11/28/23 23:02	1
Benzo[a]anthracene	0.175	J H	2.00	0.150	ug/L		11/28/23 09:28	11/28/23 23:02	1
Benzo[a]pyrene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 23:02	1
Benzo[b]fluoranthene	<0.210	U H	2.00	0.210	ug/L		11/28/23 09:28	11/28/23 23:02	1
Benzo[g,h,i]perylene	0.245	J H	2.00	0.143	ug/L		11/28/23 09:28	11/28/23 23:02	1
Benzo[k]fluoranthene	<0.166	U H	2.00	0.166	ug/L		11/28/23 09:28	11/28/23 23:02	1
Benzyl alcohol	<4.50	U H	8.00	4.50	ug/L		11/28/23 09:28	11/28/23 23:02	1
Bis(2-chloroethoxy)methane	<0.170	U H	2.00	0.170	ug/L		11/28/23 09:28	11/28/23 23:02	1
Bis(2-chloroethyl)ether	<0.278	U H	2.00	0.278	ug/L		11/28/23 09:28	11/28/23 23:02	1
Bis(2-ethylhexyl) phthalate	<0.225	U H	2.00	0.225	ug/L		11/28/23 09:28	11/28/23 23:02	1
Butyl benzyl phthalate	<0.150	U H	2.00	0.150	ug/L		11/28/23 09:28	11/28/23 23:02	1
Chrysene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/28/23 23:02	1
Diallate	<0.602	U H	8.00	0.602	ug/L		11/28/23 09:28	11/28/23 23:02	1
Dibenz(a,h)anthracene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 23:02	1
Dibenzofuran	1.22	J H	2.00	0.336	ug/L		11/28/23 09:28	11/28/23 23:02	1
Diethyl phthalate	<0.118	U H	2.00	0.118	ug/L		11/28/23 09:28	11/28/23 23:02	1
Dimethoate	<1.70	U H	8.00	1.70	ug/L		11/28/23 09:28	11/28/23 23:02	1
Dimethyl phthalate	<0.143	U H	2.00	0.143	ug/L		11/28/23 09:28	11/28/23 23:02	1
Di-n-butyl phthalate	<0.800	U H	2.00	0.800	ug/L		11/28/23 09:28	11/28/23 23:02	1
Di-n-octyl phthalate	<0.169	U H	2.00	0.169	ug/L		11/28/23 09:28	11/28/23 23:02	1
Dinoseb	<2.00	U H	4.00	2.00	ug/L		11/28/23 09:28	11/28/23 23:02	1
Disulfoton	<1.39	U H	8.00	1.39	ug/L		11/28/23 09:28	11/28/23 23:02	1
Ethyl methanesulfonate	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/28/23 23:02	1
Ethyl Parathion	<1.41	U H	4.00	1.41	ug/L		11/28/23 09:28	11/28/23 23:02	1
Famphur	<8.00	U H	8.00	8.00	ug/L		11/28/23 09:28	11/28/23 23:02	1
Fluoranthene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 23:02	1
Fluorene	<0.205	U H	2.00	0.205	ug/L		11/28/23 09:28	11/28/23 23:02	1
Hexachlorobenzene	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/28/23 23:02	1
Hexachlorobutadiene	<0.252	U H	2.00	0.252	ug/L		11/28/23 09:28	11/28/23 23:02	1
Hexachlorocyclopentadiene	<0.431	U H	2.00	0.431	ug/L		11/28/23 09:28	11/28/23 23:02	1
Hexachloroethane	2.10	H	2.00	0.140	ug/L		11/28/23 09:28	11/28/23 23:02	1
Hexachloropropene	<0.213	U H	4.00	0.213	ug/L		11/28/23 09:28	11/28/23 23:02	1
Indeno[1,2,3-cd]pyrene	<0.852	U H	2.00	0.852	ug/L		11/28/23 09:28	11/28/23 23:02	1
Isophorone	<0.168	U H	2.00	0.168	ug/L		11/28/23 09:28	11/28/23 23:02	1
Isosafrole	<2.46	U H	6.00	2.46	ug/L		11/28/23 09:28	11/28/23 23:02	1
Methapyrilene	<0.181	U H	2.00	0.181	ug/L		11/28/23 09:28	11/28/23 23:02	1
Methyl methanesulfonate	<0.0610	U H	2.00	0.0610	ug/L		11/28/23 09:28	11/28/23 23:02	1
Methyl parathion	<1.64	U H	4.00	1.64	ug/L		11/28/23 09:28	11/28/23 23:02	1
Naphthalene	4.55	H	2.00	0.423	ug/L		11/28/23 09:28	11/28/23 23:02	1
Nitrobenzene	<0.934	U H	2.00	0.934	ug/L		11/28/23 09:28	11/28/23 23:02	1
N-Nitro-o-toluidine	<1.31	U H	8.00	1.31	ug/L		11/28/23 09:28	11/28/23 23:02	1
N-Nitrosodiethylamine	<1.54	U H	4.00	1.54	ug/L		11/28/23 09:28	11/28/23 23:02	1
N-Nitrosodimethylamine	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/28/23 23:02	1
N-Nitrosodi-n-butylamine	<1.54	U H	2.00	1.54	ug/L		11/28/23 09:28	11/28/23 23:02	1
N-Nitrosodi-n-propylamine	<0.161	U H	2.00	0.161	ug/L		11/28/23 09:28	11/28/23 23:02	1
N-Nitrosodiphenylamine	<0.155	U H	2.00	0.155	ug/L		11/28/23 09:28	11/28/23 23:02	1
N-Nitrosomethylethylamine	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/28/23 23:02	1
N-Nitrosomorpholine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/28/23 23:02	1
N-Nitrosopiperidine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/28/23 23:02	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-28-S

Lab Sample ID: 860-61847-6

Date Collected: 11/16/23 09:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/28/23 23:02	1
o,o',o"-Triethylphosphorothioate	<0.0579	U H	8.00	0.0579	ug/L		11/28/23 09:28	11/28/23 23:02	1
p-Dimethylamino azobenzene	<0.0579	U H	8.00	0.0579	ug/L		11/28/23 09:28	11/28/23 23:02	1
Pentachlorobenzene	<1.18	U H	2.00	1.18	ug/L		11/28/23 09:28	11/28/23 23:02	1
Pentachloronitrobenzene	<1.27	U H	2.00	1.27	ug/L		11/28/23 09:28	11/28/23 23:02	1
Pentachlorophenol	<0.441	U H	2.00	0.441	ug/L		11/28/23 09:28	11/28/23 23:02	1
Phenacetin	<1.32	U H	8.00	1.32	ug/L		11/28/23 09:28	11/28/23 23:02	1
Phenanthrene	<0.176	U H	2.00	0.176	ug/L		11/28/23 09:28	11/28/23 23:02	1
Phenol	58.5	H	4.00	0.202	ug/L		11/28/23 09:28	11/28/23 23:02	1
Phorate	<1.40	U H	8.00	1.40	ug/L		11/28/23 09:28	11/28/23 23:02	1
p-Phenylene diamine	<10.0	U H *	10.0	10.0	ug/L		11/28/23 09:28	11/28/23 23:02	1
Pronamide	<1.39	U H	4.00	1.39	ug/L		11/28/23 09:28	11/28/23 23:02	1
Pyrene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/28/23 23:02	1
Pyridine	<0.725	U H	2.00	0.725	ug/L		11/28/23 09:28	11/28/23 23:02	1
Safrole, Total	<0.183	U H	4.00	0.183	ug/L		11/28/23 09:28	11/28/23 23:02	1
Sulfotepp	<1.43	U H	4.00	1.43	ug/L		11/28/23 09:28	11/28/23 23:02	1
Thionazin	<1.44	U H	8.00	1.44	ug/L		11/28/23 09:28	11/28/23 23:02	1
Aramite Peak 2	<2.74	U H	4.00	2.74	ug/L		11/28/23 09:28	11/28/23 23:02	1
Isosafrole Peak 1	<2.46	U H	6.00	2.46	ug/L		11/28/23 09:28	11/28/23 23:02	1
Diallate Peak 2	<0.602	U H	8.00	0.602	ug/L		11/28/23 09:28	11/28/23 23:02	1
Isosafrole Peak 2	<2.12	U H	6.00	2.12	ug/L		11/28/23 09:28	11/28/23 23:02	1
Diallate Peak 1	<0.675	U H	8.00	0.675	ug/L		11/28/23 09:28	11/28/23 23:02	1
Aramite Peak 1	<0.670	U H	4.00	0.670	ug/L		11/28/23 09:28	11/28/23 23:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		31 - 132	11/28/23 09:28	11/28/23 23:02	1
2-Fluorobiphenyl	67		40 - 130	11/28/23 09:28	11/28/23 23:02	1
2-Fluorophenol (Surr)	40		21 - 114	11/28/23 09:28	11/28/23 23:02	1
Nitrobenzene-d5 (Surr)	42		37 - 130	11/28/23 09:28	11/28/23 23:02	1
Phenol-d5 (Surr)	30		16 - 117	11/28/23 09:28	11/28/23 23:02	1
p-Terphenyl-d14	104		20 - 141	11/28/23 09:28	11/28/23 23:02	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - REDL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	604	H	100	21.4	ug/L		11/28/23 09:28	11/29/23 12:53	50
Diphenyl ether	2390	H	400	18.2	ug/L		11/28/23 09:28	11/29/23 12:53	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/28/23 09:28	11/29/23 12:53	50
2-Fluorobiphenyl	45		40 - 130	11/28/23 09:28	11/29/23 12:53	50
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/28/23 09:28	11/29/23 12:53	50
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/28/23 09:28	11/29/23 12:53	50
Phenol-d5 (Surr)	0	S1-	16 - 117	11/28/23 09:28	11/29/23 12:53	50
p-Terphenyl-d14	110		20 - 141	11/28/23 09:28	11/29/23 12:53	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.69		0.662	0.174	ug/L		11/20/23 12:55	11/21/23 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	115		37 - 133	11/20/23 12:55	11/21/23 12:05	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-D

Lab Sample ID: 860-61847-7

Date Collected: 11/16/23 09:49

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<322	U	500	322	ug/L			11/18/23 20:17	500
1,1,1-Trichloroethane	<293	U	2500	293	ug/L			11/18/23 20:17	500
1,1,2,2-Tetrachloroethane	<235	U	500	235	ug/L			11/18/23 20:17	500
1,1,2-Trichloro-1,2,2-trifluoroethane	<555	U	5000	555	ug/L			11/18/23 20:17	500
1,1,2-Trichloroethane	<206	U	500	206	ug/L			11/18/23 20:17	500
1,1-Dichloroethane	<318	U	500	318	ug/L			11/18/23 20:17	500
1,1-Dichloroethene	<369	U	500	369	ug/L			11/18/23 20:17	500
1,2,3-Trichloropropane	<235	U	500	235	ug/L			11/18/23 20:17	500
1,2,4-Trimethylbenzene	<209	U	500	209	ug/L			11/18/23 20:17	500
1,2-Dibromo-3-Chloropropane	<336	U	2500	336	ug/L			11/18/23 20:17	500
1,2-Dibromoethane	<500	U	2500	500	ug/L			11/18/23 20:17	500
1,2-Dichloroethane	<186	U	500	186	ug/L			11/18/23 20:17	500
1,2-Dichloropropane	<278	U	2500	278	ug/L			11/18/23 20:17	500
1,3,5-Trimethylbenzene	<206	U	500	206	ug/L			11/18/23 20:17	500
1,3-Butadiene	<284	U	500	284	ug/L			11/18/23 20:17	500
2,2,4-Trimethylpentane	<250	U	2500	250	ug/L			11/18/23 20:17	500
2-Butanone (MEK)	<4140	U	25000	4140	ug/L			11/18/23 20:17	500
2-Hexanone (MBK)	<3720	U	25000	3720	ug/L			11/18/23 20:17	500
2-Propanol	<2610	U	5000	2610	ug/L			11/18/23 20:17	500
3-Chloropropene (Allyl Chloride)	<299	U	2500	299	ug/L			11/18/23 20:17	500
4-Methyl-2-pentanone	<3750	U	25000	3750	ug/L			11/18/23 20:17	500
Acetone	<1530	U	50000	1530	ug/L			11/18/23 20:17	500
Acetonitrile	<7300	U	50000	7300	ug/L			11/18/23 20:17	500
Acrolein	<5560	U	25000	5560	ug/L			11/18/23 20:17	500
Acrylonitrile	<7160	U	25000	7160	ug/L			11/18/23 20:17	500
alpha-Chlorotoluene	<1130	U	2500	1130	ug/L			11/18/23 20:17	500
Benzene	232	J	500	230	ug/L			11/18/23 20:17	500
Bromodichloromethane	<276	U	500	276	ug/L			11/18/23 20:17	500
Bromoform	<317	U	2500	317	ug/L			11/18/23 20:17	500
Bromomethane	<710	U	2500	710	ug/L			11/18/23 20:17	500
Carbon disulfide	<825	U	2500	825	ug/L			11/18/23 20:17	500
Carbon tetrachloride	65400		2500	448	ug/L			11/18/23 20:17	500
Chlorobenzene	<228	U	500	228	ug/L			11/18/23 20:17	500
Chlorodibromomethane	<274	U	2500	274	ug/L			11/18/23 20:17	500
Chloroethane	<992	U	5000	992	ug/L			11/18/23 20:17	500
Chloroform	973		500	232	ug/L			11/18/23 20:17	500
Chloromethane	<1020	U	5000	1020	ug/L			11/18/23 20:17	500
Chloroprene	<299	U	2500	299	ug/L			11/18/23 20:17	500
cis-1,2-Dichloroethene	<229	U	500	229	ug/L			11/18/23 20:17	500
cis-1,3-Dichloropropene	<534	U	2500	534	ug/L			11/18/23 20:17	500
Cumene (isopropylbenzene)	<296	U	500	296	ug/L			11/18/23 20:17	500
Cyclohexane	<643	U	2500	643	ug/L			11/18/23 20:17	500
Dibromomethane	<179	U	500	179	ug/L			11/18/23 20:17	500
Dichlorodifluoromethane	<393	U	500	393	ug/L			11/18/23 20:17	500
Ethyl methacrylate	<559	U	2500	559	ug/L			11/18/23 20:17	500
Ethylbenzene	<193	U	500	193	ug/L			11/18/23 20:17	500
Hexane	<259	U	2500	259	ug/L			11/18/23 20:17	500
Iodomethane	<3260	U	10000	3260	ug/L			11/18/23 20:17	500
Isobutanol	<8550	U	25000	8550	ug/L			11/18/23 20:17	500

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-D

Lab Sample ID: 860-61847-7

Date Collected: 11/16/23 09:49

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<1360	U	5000	1360	ug/L			11/18/23 20:17	500
Methyl methacrylate	<1130	U	5000	1130	ug/L			11/18/23 20:17	500
Methyl tert-butyl ether	<696	U	2500	696	ug/L			11/18/23 20:17	500
Methylene Chloride	<863	U	2500	863	ug/L			11/18/23 20:17	500
Propionitrile	<1670	U	5000	1670	ug/L			11/18/23 20:17	500
Propylbenzene	<215	U	500	215	ug/L			11/18/23 20:17	500
Styrene	<310	U	500	310	ug/L			11/18/23 20:17	500
Tetrachloroethene	<328	U	500	328	ug/L			11/18/23 20:17	500
Tetrahydrofuran	<917	U	5000	917	ug/L			11/18/23 20:17	500
Toluene	<238	U	500	238	ug/L			11/18/23 20:17	500
trans-1,2-Dichloroethene	<184	U	500	184	ug/L			11/18/23 20:17	500
trans-1,3-Dichloropropene	<634	U	2500	634	ug/L			11/18/23 20:17	500
trans-1,4-Dichloro-2-butene	<675	U	5000	675	ug/L			11/18/23 20:17	500
Trichloroethene	<750	U	2500	750	ug/L			11/18/23 20:17	500
Trichlorofluoromethane	<280	U	500	280	ug/L			11/18/23 20:17	500
Vinyl acetate	<1070	U	10000	1070	ug/L			11/18/23 20:17	500
Vinyl chloride	<214	U	1000	214	ug/L			11/18/23 20:17	500
Xylenes, Total	<620	U	5000	620	ug/L			11/18/23 20:17	500
m,p-Xylenes	<0.620	U	5.00	0.620	mg/L			11/18/23 20:17	500
o-Xylene	<0.251	U	0.500	0.251	mg/L			11/18/23 20:17	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/18/23 20:17	500
4-Bromofluorobenzene (Surr)	101		74 - 124		11/18/23 20:17	500
Dibromofluoromethane (Surr)	105		75 - 131		11/18/23 20:17	500
Toluene-d8 (Surr)	98		80 - 120		11/18/23 20:17	500

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/27/23 13:15	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/27/23 13:15	1
1,2-Dichlorobenzene	0.870	J	2.00	0.296	ug/L		11/22/23 13:06	11/27/23 13:15	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/27/23 13:15	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/27/23 13:15	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/27/23 13:15	1
1,4-Dichlorobenzene	1.32	J	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 13:15	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/27/23 13:15	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 13:15	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/27/23 13:15	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/27/23 13:15	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/27/23 13:15	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 13:15	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/27/23 13:15	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 13:15	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/27/23 13:15	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/27/23 13:15	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 13:15	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 13:15	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/27/23 13:15	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/27/23 13:15	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-D

Lab Sample ID: 860-61847-7

Date Collected: 11/16/23 09:49

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/27/23 13:15	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/22/23 13:06	11/27/23 13:15	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 13:15	1
2-Naphthylamine	<0.595	U *	8.00	0.595	ug/L		11/22/23 13:06	11/27/23 13:15	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/27/23 13:15	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 13:15	1
2-Picoline	<0.215	U *1	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 13:15	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/27/23 13:15	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/27/23 13:15	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/27/23 13:15	1
3,3'-Dimethylbenzidine	<0.444	U * -1	8.00	0.444	ug/L		11/22/23 13:06	11/27/23 13:15	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/27/23 13:15	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/27/23 13:15	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/27/23 13:15	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/27/23 13:15	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/27/23 13:15	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/27/23 13:15	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/27/23 13:15	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 13:15	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/27/23 13:15	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/27/23 13:15	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/27/23 13:15	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/27/23 13:15	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 13:15	1
Acetophenone	0.301	J	4.00	0.225	ug/L		11/22/23 13:06	11/27/23 13:15	1
alpha, alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/27/23 13:15	1
Aniline	<0.314	U *1	4.00	0.314	ug/L		11/22/23 13:06	11/27/23 13:15	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/27/23 13:15	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 13:15	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 13:15	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 13:15	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/27/23 13:15	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 13:15	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/27/23 13:15	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/27/23 13:15	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/27/23 13:15	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/27/23 13:15	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/27/23 13:15	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 13:15	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 13:15	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 13:15	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 13:15	1
Dibenzofuran	0.440	J	2.00	0.336	ug/L		11/22/23 13:06	11/27/23 13:15	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/27/23 13:15	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/27/23 13:15	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 13:15	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/27/23 13:15	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/27/23 13:15	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/27/23 13:15	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-D

Lab Sample ID: 860-61847-7

Date Collected: 11/16/23 09:49

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/27/23 13:15	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 13:15	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/27/23 13:15	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/27/23 13:15	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 13:15	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/27/23 13:15	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 13:15	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/27/23 13:15	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/27/23 13:15	1
Hexachloroethane	0.697	J	2.00	0.140	ug/L		11/22/23 13:06	11/27/23 13:15	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/27/23 13:15	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/27/23 13:15	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/27/23 13:15	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 13:15	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/27/23 13:15	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/27/23 13:15	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/27/23 13:15	1
Naphthalene	2.42		2.00	0.423	ug/L		11/22/23 13:06	11/27/23 13:15	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/27/23 13:15	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/27/23 13:15	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/27/23 13:15	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 13:15	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/27/23 13:15	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/27/23 13:15	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/27/23 13:15	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 13:15	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 13:15	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 13:15	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 13:15	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 13:15	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 13:15	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/27/23 13:15	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/27/23 13:15	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/27/23 13:15	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/27/23 13:15	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/27/23 13:15	1
Phenol	1.74	J	4.00	0.202	ug/L		11/22/23 13:06	11/27/23 13:15	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/27/23 13:15	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/22/23 13:06	11/27/23 13:15	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/27/23 13:15	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 13:15	1
Pyridine	1.44	J B *1	2.00	0.725	ug/L		11/22/23 13:06	11/27/23 13:15	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/27/23 13:15	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/27/23 13:15	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/27/23 13:15	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/27/23 13:15	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 13:15	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 13:15	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/22/23 13:06	11/27/23 13:15	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-D

Lab Sample ID: 860-61847-7

Date Collected: 11/16/23 09:49

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/27/23 13:15	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		31 - 132				11/22/23 13:06	11/27/23 13:15	1
2-Fluorobiphenyl	69		40 - 130				11/22/23 13:06	11/27/23 13:15	1
2-Fluorophenol (Surr)	34		21 - 114				11/22/23 13:06	11/27/23 13:15	1
Nitrobenzene-d5 (Surr)	45		37 - 130				11/22/23 13:06	11/27/23 13:15	1
Phenol-d5 (Surr)	21		16 - 117				11/22/23 13:06	11/27/23 13:15	1
p-Terphenyl-d14	94		20 - 141				11/22/23 13:06	11/27/23 13:15	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	306		40.0	8.57	ug/L		11/22/23 13:06	11/28/23 12:15	20
Diphenyl ether	914		160	7.27	ug/L		11/22/23 13:06	11/28/23 12:15	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132				11/22/23 13:06	11/28/23 12:15	20
2-Fluorobiphenyl	72		40 - 130				11/22/23 13:06	11/28/23 12:15	20
2-Fluorophenol (Surr)	0	S1-	21 - 114				11/22/23 13:06	11/28/23 12:15	20
Nitrobenzene-d5 (Surr)	60		37 - 130				11/22/23 13:06	11/28/23 12:15	20
Phenol-d5 (Surr)	0	S1-	16 - 117				11/22/23 13:06	11/28/23 12:15	20
p-Terphenyl-d14	96		20 - 141				11/22/23 13:06	11/28/23 12:15	20

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<0.672	U H	2.00	0.672	ug/L		11/28/23 09:28	11/28/23 23:23	1
1,2,4-Trichlorobenzene	<0.680	U H	2.00	0.680	ug/L		11/28/23 09:28	11/28/23 23:23	1
1,2-Dichlorobenzene	0.846	J H	2.00	0.296	ug/L		11/28/23 09:28	11/28/23 23:23	1
1,3,5-Trinitrobenzene	<1.43	U H	2.00	1.43	ug/L		11/28/23 09:28	11/28/23 23:23	1
1,3-Dichlorobenzene	<0.350	U H	2.00	0.350	ug/L		11/28/23 09:28	11/28/23 23:23	1
1,3-Dinitrobenzene	<0.112	U H	2.00	0.112	ug/L		11/28/23 09:28	11/28/23 23:23	1
1,4-Dichlorobenzene	1.35	J H	2.00	0.428	ug/L		11/28/23 09:28	11/28/23 23:23	1
1,4-Naphthoquinone	<1.85	U H	8.00	1.85	ug/L		11/28/23 09:28	11/28/23 23:23	1
1-Naphthylamine	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/28/23 23:23	1
2,2'-oxybis[1-chloropropane]	<0.139	U H	2.00	0.139	ug/L		11/28/23 09:28	11/28/23 23:23	1
2,3,4,6-Tetrachlorophenol	<0.174	U H	2.00	0.174	ug/L		11/28/23 09:28	11/28/23 23:23	1
2,4,5-Trichlorophenol	<0.108	U H	2.00	0.108	ug/L		11/28/23 09:28	11/28/23 23:23	1
2,4,6-Trichlorophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/28/23 23:23	1
2,4-Dichlorophenol	<0.115	U H	2.00	0.115	ug/L		11/28/23 09:28	11/28/23 23:23	1
2,4-Dimethylphenol	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 23:23	1
2,4-Dinitrophenol	<1.46	U H	8.00	1.46	ug/L		11/28/23 09:28	11/28/23 23:23	1
2,4-Dinitrotoluene	<0.127	U H	2.00	0.127	ug/L		11/28/23 09:28	11/28/23 23:23	1
2,6-Dichlorophenol	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/28/23 23:23	1
2,6-Dinitrotoluene	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/28/23 23:23	1
2-Acetylaminofluorene	<1.52	U H	8.00	1.52	ug/L		11/28/23 09:28	11/28/23 23:23	1
2-Chloronaphthalene	<1.09	U H	8.00	1.09	ug/L		11/28/23 09:28	11/28/23 23:23	1
2-Chlorophenol	<0.0135	U H	2.00	0.0135	ug/L		11/28/23 09:28	11/28/23 23:23	1
2-Methylnaphthalene	<0.480	U H	2.00	0.480	ug/L		11/28/23 09:28	11/28/23 23:23	1
2-Methylphenol	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/28/23 23:23	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-D

Lab Sample ID: 860-61847-7

Date Collected: 11/16/23 09:49

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Naphthylamine	<0.595	U H	8.00	0.595	ug/L		11/28/23 09:28	11/28/23 23:23	1
2-Nitroaniline	<0.163	U H	4.00	0.163	ug/L		11/28/23 09:28	11/28/23 23:23	1
2-Nitrophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/28/23 23:23	1
2-Picoline	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/28/23 23:23	1
2-Toluidine	<0.934	U H	8.00	0.934	ug/L		11/28/23 09:28	11/28/23 23:23	1
3 & 4 Methylphenol	<0.163	U H	2.00	0.163	ug/L		11/28/23 09:28	11/28/23 23:23	1
3,3'-Dichlorobenzidine	<0.220	U H	4.00	0.220	ug/L		11/28/23 09:28	11/28/23 23:23	1
3,3'-Dimethylbenzidine	<0.444	U H *	8.00	0.444	ug/L		11/28/23 09:28	11/28/23 23:23	1
3-Methylcholanthrene	<0.159	U H	8.00	0.159	ug/L		11/28/23 09:28	11/28/23 23:23	1
3-Nitroaniline	<0.344	U H	2.00	0.344	ug/L		11/28/23 09:28	11/28/23 23:23	1
4,6-Dinitro-2-methylphenol	<0.736	U H	8.00	0.736	ug/L		11/28/23 09:28	11/28/23 23:23	1
4-Aminobiphenyl	<0.297	U H	8.00	0.297	ug/L		11/28/23 09:28	11/28/23 23:23	1
4-Bromophenyl phenyl ether	<0.167	U H	2.00	0.167	ug/L		11/28/23 09:28	11/28/23 23:23	1
4-Chloro-3-methylphenol	<0.157	U H	2.00	0.157	ug/L		11/28/23 09:28	11/28/23 23:23	1
4-Chloroaniline	<0.149	U H	4.00	0.149	ug/L		11/28/23 09:28	11/28/23 23:23	1
4-Chlorophenyl phenyl ether	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/28/23 23:23	1
4-Nitroaniline	<0.247	U H	4.00	0.247	ug/L		11/28/23 09:28	11/28/23 23:23	1
4-Nitroquinoline-1-oxide	<2.15	U H	4.00	2.15	ug/L		11/28/23 09:28	11/28/23 23:23	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U H	8.00	0.0610	ug/L		11/28/23 09:28	11/28/23 23:23	1
Acenaphthene	<0.208	U H	2.00	0.208	ug/L		11/28/23 09:28	11/28/23 23:23	1
Acenaphthylene	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/28/23 23:23	1
Acetophenone	0.303	J H	4.00	0.225	ug/L		11/28/23 09:28	11/28/23 23:23	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U H	4.00	4.00	ug/L		11/28/23 09:28	11/28/23 23:23	1
Aniline	<0.314	U H	4.00	0.314	ug/L		11/28/23 09:28	11/28/23 23:23	1
Anthracene	<0.154	U H	2.00	0.154	ug/L		11/28/23 09:28	11/28/23 23:23	1
Aramite, Total	<0.670	U H	4.00	0.670	ug/L		11/28/23 09:28	11/28/23 23:23	1
Benzo[a]anthracene	<0.150	U H	2.00	0.150	ug/L		11/28/23 09:28	11/28/23 23:23	1
Benzo[a]pyrene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 23:23	1
Benzo[b]fluoranthene	<0.210	U H	2.00	0.210	ug/L		11/28/23 09:28	11/28/23 23:23	1
Benzo[g,h,i]perylene	<0.143	U H	2.00	0.143	ug/L		11/28/23 09:28	11/28/23 23:23	1
Benzo[k]fluoranthene	<0.166	U H	2.00	0.166	ug/L		11/28/23 09:28	11/28/23 23:23	1
Benzyl alcohol	<4.50	U H	8.00	4.50	ug/L		11/28/23 09:28	11/28/23 23:23	1
Bis(2-chloroethoxy)methane	<0.170	U H	2.00	0.170	ug/L		11/28/23 09:28	11/28/23 23:23	1
Bis(2-chloroethyl)ether	<0.278	U H	2.00	0.278	ug/L		11/28/23 09:28	11/28/23 23:23	1
Bis(2-ethylhexyl) phthalate	<0.225	U H	2.00	0.225	ug/L		11/28/23 09:28	11/28/23 23:23	1
Butyl benzyl phthalate	<0.150	U H	2.00	0.150	ug/L		11/28/23 09:28	11/28/23 23:23	1
Chrysene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/28/23 23:23	1
Diallate	<0.602	U H	8.00	0.602	ug/L		11/28/23 09:28	11/28/23 23:23	1
Dibenz(a,h)anthracene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 23:23	1
Dibenzofuran	0.416	J H	2.00	0.336	ug/L		11/28/23 09:28	11/28/23 23:23	1
Diethyl phthalate	<0.118	U H	2.00	0.118	ug/L		11/28/23 09:28	11/28/23 23:23	1
Dimethoate	<1.70	U H	8.00	1.70	ug/L		11/28/23 09:28	11/28/23 23:23	1
Dimethyl phthalate	<0.143	U H	2.00	0.143	ug/L		11/28/23 09:28	11/28/23 23:23	1
Di-n-butyl phthalate	<0.800	U H	2.00	0.800	ug/L		11/28/23 09:28	11/28/23 23:23	1
Di-n-octyl phthalate	<0.169	U H	2.00	0.169	ug/L		11/28/23 09:28	11/28/23 23:23	1
Dinoseb	<2.00	U H	4.00	2.00	ug/L		11/28/23 09:28	11/28/23 23:23	1
Disulfoton	<1.39	U H	8.00	1.39	ug/L		11/28/23 09:28	11/28/23 23:23	1
Ethyl methanesulfonate	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/28/23 23:23	1
Ethyl Parathion	<1.41	U H	4.00	1.41	ug/L		11/28/23 09:28	11/28/23 23:23	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-D

Lab Sample ID: 860-61847-7

Date Collected: 11/16/23 09:49

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Famphur	<8.00	U H	8.00	8.00	ug/L		11/28/23 09:28	11/28/23 23:23	1
Fluoranthene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 23:23	1
Fluorene	<0.205	U H	2.00	0.205	ug/L		11/28/23 09:28	11/28/23 23:23	1
Hexachlorobenzene	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/28/23 23:23	1
Hexachlorobutadiene	<0.252	U H	2.00	0.252	ug/L		11/28/23 09:28	11/28/23 23:23	1
Hexachlorocyclopentadiene	<0.431	U H	2.00	0.431	ug/L		11/28/23 09:28	11/28/23 23:23	1
Hexachloroethane	0.643	J H	2.00	0.140	ug/L		11/28/23 09:28	11/28/23 23:23	1
Hexachloropropene	<0.213	U H	4.00	0.213	ug/L		11/28/23 09:28	11/28/23 23:23	1
Indeno[1,2,3-cd]pyrene	<0.852	U H	2.00	0.852	ug/L		11/28/23 09:28	11/28/23 23:23	1
Isophorone	<0.168	U H	2.00	0.168	ug/L		11/28/23 09:28	11/28/23 23:23	1
Isosafrole	<2.46	U H	6.00	2.46	ug/L		11/28/23 09:28	11/28/23 23:23	1
Methapyrilene	<0.181	U H	2.00	0.181	ug/L		11/28/23 09:28	11/28/23 23:23	1
Methyl methanesulfonate	<0.0610	U H	2.00	0.0610	ug/L		11/28/23 09:28	11/28/23 23:23	1
Methyl parathion	<1.64	U H	4.00	1.64	ug/L		11/28/23 09:28	11/28/23 23:23	1
Naphthalene	2.47	H	2.00	0.423	ug/L		11/28/23 09:28	11/28/23 23:23	1
Nitrobenzene	<0.934	U H	2.00	0.934	ug/L		11/28/23 09:28	11/28/23 23:23	1
N-Nitro-o-toluidine	<1.31	U H	8.00	1.31	ug/L		11/28/23 09:28	11/28/23 23:23	1
N-Nitrosodiethylamine	<1.54	U H	4.00	1.54	ug/L		11/28/23 09:28	11/28/23 23:23	1
N-Nitrosodimethylamine	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/28/23 23:23	1
N-Nitrosodi-n-butylamine	<1.54	U H	2.00	1.54	ug/L		11/28/23 09:28	11/28/23 23:23	1
N-Nitrosodi-n-propylamine	<0.161	U H	2.00	0.161	ug/L		11/28/23 09:28	11/28/23 23:23	1
N-Nitrosodiphenylamine	<0.155	U H	2.00	0.155	ug/L		11/28/23 09:28	11/28/23 23:23	1
N-Nitrosomethylethylamine	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/28/23 23:23	1
N-Nitrosomorpholine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/28/23 23:23	1
N-Nitrosopiperidine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/28/23 23:23	1
N-Nitrosopyrrolidine	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/28/23 23:23	1
o,o',o"-Triethylphosphorothioate	<0.0579	U H	8.00	0.0579	ug/L		11/28/23 09:28	11/28/23 23:23	1
p-Dimethylamino azobenzene	<0.0579	U H	8.00	0.0579	ug/L		11/28/23 09:28	11/28/23 23:23	1
Pentachlorobenzene	<1.18	U H	2.00	1.18	ug/L		11/28/23 09:28	11/28/23 23:23	1
Pentachloronitrobenzene	<1.27	U H	2.00	1.27	ug/L		11/28/23 09:28	11/28/23 23:23	1
Pentachlorophenol	<0.441	U H	2.00	0.441	ug/L		11/28/23 09:28	11/28/23 23:23	1
Phenacetin	<1.32	U H	8.00	1.32	ug/L		11/28/23 09:28	11/28/23 23:23	1
Phenanthrene	<0.176	U H	2.00	0.176	ug/L		11/28/23 09:28	11/28/23 23:23	1
Phenol	1.82	J H	4.00	0.202	ug/L		11/28/23 09:28	11/28/23 23:23	1
Phorate	<1.40	U H	8.00	1.40	ug/L		11/28/23 09:28	11/28/23 23:23	1
p-Phenylene diamine	<10.0	U H *	10.0	10.0	ug/L		11/28/23 09:28	11/28/23 23:23	1
Pronamide	<1.39	U H	4.00	1.39	ug/L		11/28/23 09:28	11/28/23 23:23	1
Pyrene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/28/23 23:23	1
Pyridine	<0.725	U H	2.00	0.725	ug/L		11/28/23 09:28	11/28/23 23:23	1
Safrole, Total	<0.183	U H	4.00	0.183	ug/L		11/28/23 09:28	11/28/23 23:23	1
Sulfotepp	<1.43	U H	4.00	1.43	ug/L		11/28/23 09:28	11/28/23 23:23	1
Thionazin	<1.44	U H	8.00	1.44	ug/L		11/28/23 09:28	11/28/23 23:23	1
Aramite Peak 2	<2.74	U H	4.00	2.74	ug/L		11/28/23 09:28	11/28/23 23:23	1
Isosafrole Peak 1	<2.46	U H	6.00	2.46	ug/L		11/28/23 09:28	11/28/23 23:23	1
Diallate Peak 2	<0.602	U H	8.00	0.602	ug/L		11/28/23 09:28	11/28/23 23:23	1
Isosafrole Peak 2	<2.12	U H	6.00	2.12	ug/L		11/28/23 09:28	11/28/23 23:23	1
Diallate Peak 1	<0.675	U H	8.00	0.675	ug/L		11/28/23 09:28	11/28/23 23:23	1
Aramite Peak 1	<0.670	U H	4.00	0.670	ug/L		11/28/23 09:28	11/28/23 23:23	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-D

Lab Sample ID: 860-61847-7

Date Collected: 11/16/23 09:49

Matrix: Water

Date Received: 11/17/23 09:23

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		31 - 132	11/28/23 09:28	11/28/23 23:23	1
2-Fluorobiphenyl	73		40 - 130	11/28/23 09:28	11/28/23 23:23	1
2-Fluorophenol (Surr)	43		21 - 114	11/28/23 09:28	11/28/23 23:23	1
Nitrobenzene-d5 (Surr)	48		37 - 130	11/28/23 09:28	11/28/23 23:23	1
Phenol-d5 (Surr)	25		16 - 117	11/28/23 09:28	11/28/23 23:23	1
p-Terphenyl-d14	103		20 - 141	11/28/23 09:28	11/28/23 23:23	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - REDL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	303	H	40.0	8.57	ug/L		11/28/23 09:28	11/29/23 14:16	20
Diphenyl ether	900	H	160	7.27	ug/L		11/28/23 09:28	11/29/23 14:16	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	41		31 - 132	11/28/23 09:28	11/29/23 14:16	20
2-Fluorobiphenyl	66		40 - 130	11/28/23 09:28	11/29/23 14:16	20
2-Fluorophenol (Surr)	20	S1-	21 - 114	11/28/23 09:28	11/29/23 14:16	20
Nitrobenzene-d5 (Surr)	31	S1-	37 - 130	11/28/23 09:28	11/29/23 14:16	20
Phenol-d5 (Surr)	0	S1-	16 - 117	11/28/23 09:28	11/29/23 14:16	20
p-Terphenyl-d14	104		20 - 141	11/28/23 09:28	11/29/23 14:16	20

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.173	U	0.660	0.173	ug/L		11/20/23 12:55	11/21/23 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	117		37 - 133	11/20/23 12:55	11/21/23 12:34	1

Client Sample ID: FB-02

Lab Sample ID: 860-61847-8

Date Collected: 11/16/23 09:49

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/18/23 14:49	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/18/23 14:49	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/18/23 14:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/18/23 14:49	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/18/23 14:49	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/18/23 14:49	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/18/23 14:49	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/18/23 14:49	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/18/23 14:49	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/18/23 14:49	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/18/23 14:49	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/18/23 14:49	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/18/23 14:49	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/18/23 14:49	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/18/23 14:49	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/18/23 14:49	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/18/23 14:49	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/18/23 14:49	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: FB-02

Lab Sample ID: 860-61847-8

Date Collected: 11/16/23 09:49

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/18/23 14:49	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/18/23 14:49	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/18/23 14:49	1
Acetone	<3.07	U	100	3.07	ug/L			11/18/23 14:49	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/18/23 14:49	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/18/23 14:49	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/18/23 14:49	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/18/23 14:49	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/18/23 14:49	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/18/23 14:49	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/18/23 14:49	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/18/23 14:49	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/18/23 14:49	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/18/23 14:49	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/18/23 14:49	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/18/23 14:49	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/18/23 14:49	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/18/23 14:49	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/18/23 14:49	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/18/23 14:49	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/18/23 14:49	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/18/23 14:49	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/18/23 14:49	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/18/23 14:49	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/18/23 14:49	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/18/23 14:49	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/18/23 14:49	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/18/23 14:49	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/18/23 14:49	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/18/23 14:49	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/18/23 14:49	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/18/23 14:49	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/18/23 14:49	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/18/23 14:49	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/18/23 14:49	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/18/23 14:49	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/18/23 14:49	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/18/23 14:49	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/18/23 14:49	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/18/23 14:49	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/18/23 14:49	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/18/23 14:49	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/18/23 14:49	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/18/23 14:49	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/18/23 14:49	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/18/23 14:49	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/18/23 14:49	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/18/23 14:49	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/18/23 14:49	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: FB-02

Lab Sample ID: 860-61847-8

Date Collected: 11/16/23 09:49

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/18/23 14:49	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/18/23 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144					11/18/23 14:49	1
4-Bromofluorobenzene (Surr)	101		74 - 124					11/18/23 14:49	1
Dibromofluoromethane (Surr)	103		75 - 131					11/18/23 14:49	1
Toluene-d8 (Surr)	98		80 - 120					11/18/23 14:49	1

Client Sample ID: MW-28-D

Lab Sample ID: 860-61847-9

Date Collected: 11/16/23 11:50

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<64.4	U	100	64.4	ug/L			11/20/23 21:31	100
1,1,1-Trichloroethane	<58.5	U	500	58.5	ug/L			11/20/23 21:31	100
1,1,2,2-Tetrachloroethane	<47.0	U	100	47.0	ug/L			11/20/23 21:31	100
1,1,2-Trichloro-1,2,2-trifluoroethane	<111	U	1000	111	ug/L			11/20/23 21:31	100
1,1,2-Trichloroethane	<41.1	U	100	41.1	ug/L			11/20/23 21:31	100
1,1-Dichloroethane	<63.5	U	100	63.5	ug/L			11/20/23 21:31	100
1,1-Dichloroethene	<73.8	U	100	73.8	ug/L			11/20/23 21:31	100
1,2,3-Trichloropropane	<47.0	U	100	47.0	ug/L			11/20/23 21:31	100
1,2,4-Trimethylbenzene	<41.7	U	100	41.7	ug/L			11/20/23 21:31	100
1,2-Dibromo-3-Chloropropane	<67.1	U	500	67.1	ug/L			11/20/23 21:31	100
1,2-Dibromoethane	<99.9	U	500	99.9	ug/L			11/20/23 21:31	100
1,2-Dichloroethane	<37.2	U	100	37.2	ug/L			11/20/23 21:31	100
1,2-Dichloropropane	<55.6	U	500	55.6	ug/L			11/20/23 21:31	100
1,3,5-Trimethylbenzene	<41.1	U	100	41.1	ug/L			11/20/23 21:31	100
1,3-Butadiene	<56.8	U	100	56.8	ug/L			11/20/23 21:31	100
2,2,4-Trimethylpentane	<50.0	U	500	50.0	ug/L			11/20/23 21:31	100
2-Butanone (MEK)	<828	U	5000	828	ug/L			11/20/23 21:31	100
2-Hexanone (MBK)	<745	U	5000	745	ug/L			11/20/23 21:31	100
2-Propanol	<523	U	1000	523	ug/L			11/20/23 21:31	100
3-Chloropropene (Allyl Chloride)	<59.7	U	500	59.7	ug/L			11/20/23 21:31	100
4-Methyl-2-pentanone	<749	U	5000	749	ug/L			11/20/23 21:31	100
Acetone	<307	U	10000	307	ug/L			11/20/23 21:31	100
Acetonitrile	<1460	U	10000	1460	ug/L			11/20/23 21:31	100
Acrolein	<1110	U	5000	1110	ug/L			11/20/23 21:31	100
Acrylonitrile	<1430	U	5000	1430	ug/L			11/20/23 21:31	100
alpha-Chlorotoluene	<226	U	500	226	ug/L			11/20/23 21:31	100
Benzene	281		100	46.0	ug/L			11/20/23 21:31	100
Bromodichloromethane	<55.2	U	100	55.2	ug/L			11/20/23 21:31	100
Bromoform	<63.3	U	500	63.3	ug/L			11/20/23 21:31	100
Bromomethane	<142	U	500	142	ug/L			11/20/23 21:31	100
Carbon disulfide	<165	U	500	165	ug/L			11/20/23 21:31	100
Chlorobenzene	162		100	45.5	ug/L			11/20/23 21:31	100
Chlorodibromomethane	<54.7	U	500	54.7	ug/L			11/20/23 21:31	100
Chloroethane	<198	U	1000	198	ug/L			11/20/23 21:31	100
Chloroform	5810		100	46.4	ug/L			11/20/23 21:31	100

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-28-D

Lab Sample ID: 860-61847-9

Date Collected: 11/16/23 11:50

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<204	U	1000	204	ug/L			11/20/23 21:31	100
Chloroprene	<59.8	U	500	59.8	ug/L			11/20/23 21:31	100
cis-1,2-Dichloroethene	<45.7	U	100	45.7	ug/L			11/20/23 21:31	100
cis-1,3-Dichloropropene	<107	U	500	107	ug/L			11/20/23 21:31	100
Cumene (isopropylbenzene)	<59.2	U	100	59.2	ug/L			11/20/23 21:31	100
Cyclohexane	<129	U	500	129	ug/L			11/20/23 21:31	100
Dibromomethane	<35.7	U	100	35.7	ug/L			11/20/23 21:31	100
Dichlorodifluoromethane	<78.5	U	100	78.5	ug/L			11/20/23 21:31	100
Ethyl methacrylate	<112	U	500	112	ug/L			11/20/23 21:31	100
Ethylbenzene	<38.5	U	100	38.5	ug/L			11/20/23 21:31	100
Hexane	<51.7	U	500	51.7	ug/L			11/20/23 21:31	100
Iodomethane	<652	U	2000	652	ug/L			11/20/23 21:31	100
Isobutanol	<1710	U	5000	1710	ug/L			11/20/23 21:31	100
Methacrylonitrile	<272	U	1000	272	ug/L			11/20/23 21:31	100
Methyl methacrylate	<225	U	1000	225	ug/L			11/20/23 21:31	100
Methyl tert-butyl ether	<139	U	500	139	ug/L			11/20/23 21:31	100
Methylene Chloride	<173	U	500	173	ug/L			11/20/23 21:31	100
Propionitrile	<334	U	1000	334	ug/L			11/20/23 21:31	100
Propylbenzene	<42.9	U	100	42.9	ug/L			11/20/23 21:31	100
Styrene	<61.9	U	100	61.9	ug/L			11/20/23 21:31	100
Tetrachloroethene	<65.5	U	100	65.5	ug/L			11/20/23 21:31	100
Tetrahydrofuran	<183	U	1000	183	ug/L			11/20/23 21:31	100
Toluene	<47.5	U	100	47.5	ug/L			11/20/23 21:31	100
trans-1,2-Dichloroethene	<36.8	U	100	36.8	ug/L			11/20/23 21:31	100
trans-1,3-Dichloropropene	<127	U	500	127	ug/L			11/20/23 21:31	100
trans-1,4-Dichloro-2-butene	<135	U	1000	135	ug/L			11/20/23 21:31	100
Trichloroethene	<150	U	500	150	ug/L			11/20/23 21:31	100
Trichlorofluoromethane	<56.0	U	100	56.0	ug/L			11/20/23 21:31	100
Vinyl acetate	<214	U	2000	214	ug/L			11/20/23 21:31	100
Vinyl chloride	<42.8	U	200	42.8	ug/L			11/20/23 21:31	100
Xylenes, Total	<124	U	1000	124	ug/L			11/20/23 21:31	100
m,p-Xylenes	<0.124	U	1.00	0.124	mg/L			11/20/23 21:31	100
o-Xylene	<0.0502	U	0.100	0.0502	mg/L			11/20/23 21:31	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		11/20/23 21:31	100
4-Bromofluorobenzene (Surr)	101		74 - 124		11/20/23 21:31	100
Dibromofluoromethane (Surr)	106		75 - 131		11/20/23 21:31	100
Toluene-d8 (Surr)	99		80 - 120		11/20/23 21:31	100

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	31000		2500	448	ug/L			11/18/23 20:37	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		11/18/23 20:37	500
4-Bromofluorobenzene (Surr)	101		74 - 124		11/18/23 20:37	500
Dibromofluoromethane (Surr)	105		75 - 131		11/18/23 20:37	500
Toluene-d8 (Surr)	99		80 - 120		11/18/23 20:37	500

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-28-D

Lab Sample ID: 860-61847-9

Date Collected: 11/16/23 11:50

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/27/23 13:36	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/27/23 13:36	1
1,2-Dichlorobenzene	1.78	J	2.00	0.296	ug/L		11/22/23 13:06	11/27/23 13:36	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/27/23 13:36	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/27/23 13:36	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/27/23 13:36	1
1,4-Dichlorobenzene	2.59		2.00	0.428	ug/L		11/22/23 13:06	11/27/23 13:36	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/27/23 13:36	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 13:36	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/27/23 13:36	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/27/23 13:36	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/27/23 13:36	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 13:36	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/27/23 13:36	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 13:36	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/27/23 13:36	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/27/23 13:36	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 13:36	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 13:36	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/27/23 13:36	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/27/23 13:36	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/27/23 13:36	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/22/23 13:06	11/27/23 13:36	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 13:36	1
2-Naphthylamine	<0.595	U *	8.00	0.595	ug/L		11/22/23 13:06	11/27/23 13:36	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/27/23 13:36	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 13:36	1
2-Picoline	<0.215	U *1	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 13:36	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/27/23 13:36	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/27/23 13:36	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/27/23 13:36	1
3,3'-Dimethylbenzidine	<0.444	U * -1	8.00	0.444	ug/L		11/22/23 13:06	11/27/23 13:36	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/27/23 13:36	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/27/23 13:36	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/27/23 13:36	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/27/23 13:36	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/27/23 13:36	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/27/23 13:36	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/27/23 13:36	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 13:36	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/27/23 13:36	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/27/23 13:36	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/27/23 13:36	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/27/23 13:36	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 13:36	1
Acetophenone	2.27	J	4.00	0.225	ug/L		11/22/23 13:06	11/27/23 13:36	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/27/23 13:36	1
Aniline	<0.314	U *1	4.00	0.314	ug/L		11/22/23 13:06	11/27/23 13:36	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/27/23 13:36	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-28-D

Lab Sample ID: 860-61847-9

Date Collected: 11/16/23 11:50

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 13:36	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 13:36	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 13:36	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/27/23 13:36	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 13:36	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/27/23 13:36	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/27/23 13:36	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/27/23 13:36	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/27/23 13:36	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/27/23 13:36	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 13:36	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 13:36	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 13:36	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 13:36	1
Dibenzofuran	1.59	J	2.00	0.336	ug/L		11/22/23 13:06	11/27/23 13:36	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/27/23 13:36	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/27/23 13:36	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 13:36	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/27/23 13:36	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/27/23 13:36	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/27/23 13:36	1
Diphenyl ether	5010	H	4000	182	ug/L		11/28/23 09:28	11/30/23 14:22	500
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/27/23 13:36	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 13:36	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/27/23 13:36	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/27/23 13:36	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 13:36	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/27/23 13:36	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 13:36	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/27/23 13:36	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/27/23 13:36	1
Hexachloroethane	0.965	J	2.00	0.140	ug/L		11/22/23 13:06	11/27/23 13:36	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/27/23 13:36	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/27/23 13:36	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/27/23 13:36	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 13:36	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/27/23 13:36	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/27/23 13:36	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/27/23 13:36	1
Naphthalene	10.3		2.00	0.423	ug/L		11/22/23 13:06	11/27/23 13:36	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/27/23 13:36	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/27/23 13:36	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/27/23 13:36	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 13:36	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/27/23 13:36	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/27/23 13:36	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/27/23 13:36	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 13:36	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 13:36	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-28-D

Lab Sample ID: 860-61847-9

Date Collected: 11/16/23 11:50

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 13:36	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 13:36	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 13:36	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 13:36	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/27/23 13:36	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/27/23 13:36	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/27/23 13:36	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/27/23 13:36	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/27/23 13:36	1
Phenol	17.5		4.00	0.202	ug/L		11/22/23 13:06	11/27/23 13:36	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/27/23 13:36	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/22/23 13:06	11/27/23 13:36	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/27/23 13:36	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 13:36	1
Pyridine	1.46	J B *1	2.00	0.725	ug/L		11/22/23 13:06	11/27/23 13:36	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/27/23 13:36	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/27/23 13:36	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/27/23 13:36	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/27/23 13:36	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 13:36	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 13:36	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/22/23 13:06	11/27/23 13:36	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/27/23 13:36	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		31 - 132	11/22/23 13:06	11/27/23 13:36	1
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/28/23 09:28	11/30/23 14:22	500
2-Fluorobiphenyl	88		40 - 130	11/22/23 13:06	11/27/23 13:36	1
2-Fluorobiphenyl	0	S1-	40 - 130	11/28/23 09:28	11/30/23 14:22	500
2-Fluorophenol (Surr)	44		21 - 114	11/22/23 13:06	11/27/23 13:36	1
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/28/23 09:28	11/30/23 14:22	500
Nitrobenzene-d5 (Surr)	61		37 - 130	11/22/23 13:06	11/27/23 13:36	1
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/28/23 09:28	11/30/23 14:22	500
Phenol-d5 (Surr)	33		16 - 117	11/22/23 13:06	11/27/23 13:36	1
Phenol-d5 (Surr)	0	S1-	16 - 117	11/28/23 09:28	11/30/23 14:22	500
p-Terphenyl-d14	104		20 - 141	11/22/23 13:06	11/27/23 13:36	1
p-Terphenyl-d14	0	S1-	20 - 141	11/28/23 09:28	11/30/23 14:22	500

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1080		100	21.4	ug/L		11/22/23 13:06	11/28/23 12:57	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/22/23 13:06	11/28/23 12:57	50
2-Fluorobiphenyl	78		40 - 130	11/22/23 13:06	11/28/23 12:57	50
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/22/23 13:06	11/28/23 12:57	50
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/22/23 13:06	11/28/23 12:57	50
Phenol-d5 (Surr)	0	S1-	16 - 117	11/22/23 13:06	11/28/23 12:57	50
p-Terphenyl-d14	84		20 - 141	11/22/23 13:06	11/28/23 12:57	50

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-28-D

Lab Sample ID: 860-61847-9

Date Collected: 11/16/23 11:50

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	5010		4000	182	ug/L		11/22/23 13:06	11/30/23 13:19	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132				11/22/23 13:06	11/30/23 13:19	500
2-Fluorobiphenyl	0	S1-	40 - 130				11/22/23 13:06	11/30/23 13:19	500
2-Fluorophenol (Surr)	0	S1-	21 - 114				11/22/23 13:06	11/30/23 13:19	500
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130				11/22/23 13:06	11/30/23 13:19	500
Phenol-d5 (Surr)	0	S1-	16 - 117				11/22/23 13:06	11/30/23 13:19	500
p-Terphenyl-d14	0	S1-	20 - 141				11/22/23 13:06	11/30/23 13:19	500

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<0.672	U H	2.00	0.672	ug/L		11/28/23 09:28	11/28/23 23:44	1
1,2,4-Trichlorobenzene	<0.680	U H	2.00	0.680	ug/L		11/28/23 09:28	11/28/23 23:44	1
1,2-Dichlorobenzene	1.45	J H	2.00	0.296	ug/L		11/28/23 09:28	11/28/23 23:44	1
1,3,5-Trinitrobenzene	<1.43	U H	2.00	1.43	ug/L		11/28/23 09:28	11/28/23 23:44	1
1,3-Dichlorobenzene	<0.350	U H	2.00	0.350	ug/L		11/28/23 09:28	11/28/23 23:44	1
1,3-Dinitrobenzene	<0.112	U H	2.00	0.112	ug/L		11/28/23 09:28	11/28/23 23:44	1
1,4-Dichlorobenzene	2.04	H	2.00	0.428	ug/L		11/28/23 09:28	11/28/23 23:44	1
1,4-Naphthoquinone	<1.85	U H	8.00	1.85	ug/L		11/28/23 09:28	11/28/23 23:44	1
1-Naphthylamine	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/28/23 23:44	1
2,2'-oxybis[1-chloropropane]	<0.139	U H	2.00	0.139	ug/L		11/28/23 09:28	11/28/23 23:44	1
2,3,4,6-Tetrachlorophenol	<0.174	U H	2.00	0.174	ug/L		11/28/23 09:28	11/28/23 23:44	1
2,4,5-Trichlorophenol	<0.108	U H	2.00	0.108	ug/L		11/28/23 09:28	11/28/23 23:44	1
2,4,6-Trichlorophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/28/23 23:44	1
2,4-Dichlorophenol	<0.115	U H	2.00	0.115	ug/L		11/28/23 09:28	11/28/23 23:44	1
2,4-Dimethylphenol	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 23:44	1
2,4-Dinitrophenol	<1.46	U H	8.00	1.46	ug/L		11/28/23 09:28	11/28/23 23:44	1
2,4-Dinitrotoluene	<0.127	U H	2.00	0.127	ug/L		11/28/23 09:28	11/28/23 23:44	1
2,6-Dichlorophenol	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/28/23 23:44	1
2,6-Dinitrotoluene	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/28/23 23:44	1
2-Acetylaminofluorene	<1.52	U H	8.00	1.52	ug/L		11/28/23 09:28	11/28/23 23:44	1
2-Chloronaphthalene	<1.09	U H	8.00	1.09	ug/L		11/28/23 09:28	11/28/23 23:44	1
2-Chlorophenol	<0.0135	U H	2.00	0.0135	ug/L		11/28/23 09:28	11/28/23 23:44	1
2-Methylnaphthalene	<0.480	U H	2.00	0.480	ug/L		11/28/23 09:28	11/28/23 23:44	1
2-Methylphenol	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/28/23 23:44	1
2-Naphthylamine	<0.595	U H	8.00	0.595	ug/L		11/28/23 09:28	11/28/23 23:44	1
2-Nitroaniline	<0.163	U H	4.00	0.163	ug/L		11/28/23 09:28	11/28/23 23:44	1
2-Nitrophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/28/23 23:44	1
2-Picoline	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/28/23 23:44	1
2-Toluidine	<0.934	U H	8.00	0.934	ug/L		11/28/23 09:28	11/28/23 23:44	1
3 & 4 Methylphenol	<0.163	U H	2.00	0.163	ug/L		11/28/23 09:28	11/28/23 23:44	1
3,3'-Dichlorobenzidine	<0.220	U H	4.00	0.220	ug/L		11/28/23 09:28	11/28/23 23:44	1
3,3'-Dimethylbenzidine	<0.444	U H *	8.00	0.444	ug/L		11/28/23 09:28	11/28/23 23:44	1
3-Methylcholanthrene	<0.159	U H	8.00	0.159	ug/L		11/28/23 09:28	11/28/23 23:44	1
3-Nitroaniline	<0.344	U H	2.00	0.344	ug/L		11/28/23 09:28	11/28/23 23:44	1
4,6-Dinitro-2-methylphenol	<0.736	U H	8.00	0.736	ug/L		11/28/23 09:28	11/28/23 23:44	1
4-Aminobiphenyl	<0.297	U H	8.00	0.297	ug/L		11/28/23 09:28	11/28/23 23:44	1
4-Bromophenyl phenyl ether	<0.167	U H	2.00	0.167	ug/L		11/28/23 09:28	11/28/23 23:44	1
4-Chloro-3-methylphenol	<0.157	U H	2.00	0.157	ug/L		11/28/23 09:28	11/28/23 23:44	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-28-D

Lab Sample ID: 860-61847-9

Date Collected: 11/16/23 11:50

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	<0.149	U H	4.00	0.149	ug/L		11/28/23 09:28	11/28/23 23:44	1
4-Chlorophenyl phenyl ether	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/28/23 23:44	1
4-Nitroaniline	<0.247	U H	4.00	0.247	ug/L		11/28/23 09:28	11/28/23 23:44	1
4-Nitroquinoline-1-oxide	<2.15	U H	4.00	2.15	ug/L		11/28/23 09:28	11/28/23 23:44	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U H	8.00	0.0610	ug/L		11/28/23 09:28	11/28/23 23:44	1
Acenaphthene	<0.208	U H	2.00	0.208	ug/L		11/28/23 09:28	11/28/23 23:44	1
Acenaphthylene	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/28/23 23:44	1
Acetophenone	1.98	J H	4.00	0.225	ug/L		11/28/23 09:28	11/28/23 23:44	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U H	4.00	4.00	ug/L		11/28/23 09:28	11/28/23 23:44	1
Aniline	<0.314	U H	4.00	0.314	ug/L		11/28/23 09:28	11/28/23 23:44	1
Anthracene	<0.154	U H	2.00	0.154	ug/L		11/28/23 09:28	11/28/23 23:44	1
Aramite, Total	<0.670	U H	4.00	0.670	ug/L		11/28/23 09:28	11/28/23 23:44	1
Benzo[a]anthracene	<0.150	U H	2.00	0.150	ug/L		11/28/23 09:28	11/28/23 23:44	1
Benzo[a]pyrene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 23:44	1
Benzo[b]fluoranthene	<0.210	U H	2.00	0.210	ug/L		11/28/23 09:28	11/28/23 23:44	1
Benzo[g,h,i]perylene	<0.143	U H	2.00	0.143	ug/L		11/28/23 09:28	11/28/23 23:44	1
Benzo[k]fluoranthene	<0.166	U H	2.00	0.166	ug/L		11/28/23 09:28	11/28/23 23:44	1
Benzyl alcohol	<4.50	U H	8.00	4.50	ug/L		11/28/23 09:28	11/28/23 23:44	1
Bis(2-chloroethoxy)methane	<0.170	U H	2.00	0.170	ug/L		11/28/23 09:28	11/28/23 23:44	1
Bis(2-chloroethyl)ether	<0.278	U H	2.00	0.278	ug/L		11/28/23 09:28	11/28/23 23:44	1
Bis(2-ethylhexyl) phthalate	<0.225	U H	2.00	0.225	ug/L		11/28/23 09:28	11/28/23 23:44	1
Butyl benzyl phthalate	<0.150	U H	2.00	0.150	ug/L		11/28/23 09:28	11/28/23 23:44	1
Chrysene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/28/23 23:44	1
Diallylate	<0.602	U H	8.00	0.602	ug/L		11/28/23 09:28	11/28/23 23:44	1
Dibenz(a,h)anthracene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 23:44	1
Dibenzofuran	1.58	J H	2.00	0.336	ug/L		11/28/23 09:28	11/28/23 23:44	1
Diethyl phthalate	<0.118	U H	2.00	0.118	ug/L		11/28/23 09:28	11/28/23 23:44	1
Dimethoate	<1.70	U H	8.00	1.70	ug/L		11/28/23 09:28	11/28/23 23:44	1
Dimethyl phthalate	<0.143	U H	2.00	0.143	ug/L		11/28/23 09:28	11/28/23 23:44	1
Di-n-butyl phthalate	<0.800	U H	2.00	0.800	ug/L		11/28/23 09:28	11/28/23 23:44	1
Di-n-octyl phthalate	<0.169	U H	2.00	0.169	ug/L		11/28/23 09:28	11/28/23 23:44	1
Dinoseb	<2.00	U H	4.00	2.00	ug/L		11/28/23 09:28	11/28/23 23:44	1
Disulfoton	<1.39	U H	8.00	1.39	ug/L		11/28/23 09:28	11/28/23 23:44	1
Ethyl methanesulfonate	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/28/23 23:44	1
Ethyl Parathion	<1.41	U H	4.00	1.41	ug/L		11/28/23 09:28	11/28/23 23:44	1
Famphur	<8.00	U H	8.00	8.00	ug/L		11/28/23 09:28	11/28/23 23:44	1
Fluoranthene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/28/23 23:44	1
Fluorene	<0.205	U H	2.00	0.205	ug/L		11/28/23 09:28	11/28/23 23:44	1
Hexachlorobenzene	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/28/23 23:44	1
Hexachlorobutadiene	<0.252	U H	2.00	0.252	ug/L		11/28/23 09:28	11/28/23 23:44	1
Hexachlorocyclopentadiene	<0.431	U H	2.00	0.431	ug/L		11/28/23 09:28	11/28/23 23:44	1
Hexachloroethane	0.954	J H	2.00	0.140	ug/L		11/28/23 09:28	11/28/23 23:44	1
Hexachloropropene	<0.213	U H	4.00	0.213	ug/L		11/28/23 09:28	11/28/23 23:44	1
Indeno[1,2,3-cd]pyrene	<0.852	U H	2.00	0.852	ug/L		11/28/23 09:28	11/28/23 23:44	1
Isophorone	<0.168	U H	2.00	0.168	ug/L		11/28/23 09:28	11/28/23 23:44	1
Isosafrole	<2.46	U H	6.00	2.46	ug/L		11/28/23 09:28	11/28/23 23:44	1
Methapyrilene	<0.181	U H	2.00	0.181	ug/L		11/28/23 09:28	11/28/23 23:44	1
Methyl methanesulfonate	<0.0610	U H	2.00	0.0610	ug/L		11/28/23 09:28	11/28/23 23:44	1
Methyl parathion	<1.64	U H	4.00	1.64	ug/L		11/28/23 09:28	11/28/23 23:44	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-28-D

Lab Sample ID: 860-61847-9

Date Collected: 11/16/23 11:50

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	9.16	H	2.00	0.423	ug/L		11/28/23 09:28	11/28/23 23:44	1
Nitrobenzene	<0.934	U H	2.00	0.934	ug/L		11/28/23 09:28	11/28/23 23:44	1
N-Nitro-o-toluidine	<1.31	U H	8.00	1.31	ug/L		11/28/23 09:28	11/28/23 23:44	1
N-Nitrosodiethylamine	<1.54	U H	4.00	1.54	ug/L		11/28/23 09:28	11/28/23 23:44	1
N-Nitrosodimethylamine	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/28/23 23:44	1
N-Nitrosodi-n-butylamine	<1.54	U H	2.00	1.54	ug/L		11/28/23 09:28	11/28/23 23:44	1
N-Nitrosodi-n-propylamine	<0.161	U H	2.00	0.161	ug/L		11/28/23 09:28	11/28/23 23:44	1
N-Nitrosodiphenylamine	<0.155	U H	2.00	0.155	ug/L		11/28/23 09:28	11/28/23 23:44	1
N-Nitrosomethylethylamine	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/28/23 23:44	1
N-Nitrosomorpholine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/28/23 23:44	1
N-Nitrosopiperidine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/28/23 23:44	1
N-Nitrosopyrrolidine	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/28/23 23:44	1
o,o',o"-Triethylphosphorothioate	<0.0579	U H	8.00	0.0579	ug/L		11/28/23 09:28	11/28/23 23:44	1
p-Dimethylamino azobenzene	<0.0579	U H	8.00	0.0579	ug/L		11/28/23 09:28	11/28/23 23:44	1
Pentachlorobenzene	<1.18	U H	2.00	1.18	ug/L		11/28/23 09:28	11/28/23 23:44	1
Pentachloronitrobenzene	<1.27	U H	2.00	1.27	ug/L		11/28/23 09:28	11/28/23 23:44	1
Pentachlorophenol	<0.441	U H	2.00	0.441	ug/L		11/28/23 09:28	11/28/23 23:44	1
Phenacetin	<1.32	U H	8.00	1.32	ug/L		11/28/23 09:28	11/28/23 23:44	1
Phenanthrene	<0.176	U H	2.00	0.176	ug/L		11/28/23 09:28	11/28/23 23:44	1
Phenol	17.9	H	4.00	0.202	ug/L		11/28/23 09:28	11/28/23 23:44	1
Phorate	<1.40	U H	8.00	1.40	ug/L		11/28/23 09:28	11/28/23 23:44	1
p-Phenylene diamine	<10.0	U H *	10.0	10.0	ug/L		11/28/23 09:28	11/28/23 23:44	1
Pronamide	<1.39	U H	4.00	1.39	ug/L		11/28/23 09:28	11/28/23 23:44	1
Pyrene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/28/23 23:44	1
Pyridine	<0.725	U H	2.00	0.725	ug/L		11/28/23 09:28	11/28/23 23:44	1
Safrole, Total	<0.183	U H	4.00	0.183	ug/L		11/28/23 09:28	11/28/23 23:44	1
Sulfotepp	<1.43	U H	4.00	1.43	ug/L		11/28/23 09:28	11/28/23 23:44	1
Thionazin	<1.44	U H	8.00	1.44	ug/L		11/28/23 09:28	11/28/23 23:44	1
Aramite Peak 2	<2.74	U H	4.00	2.74	ug/L		11/28/23 09:28	11/28/23 23:44	1
Isosafrole Peak 1	<2.46	U H	6.00	2.46	ug/L		11/28/23 09:28	11/28/23 23:44	1
Diallate Peak 2	<0.602	U H	8.00	0.602	ug/L		11/28/23 09:28	11/28/23 23:44	1
Isosafrole Peak 2	<2.12	U H	6.00	2.12	ug/L		11/28/23 09:28	11/28/23 23:44	1
Diallate Peak 1	<0.675	U H	8.00	0.675	ug/L		11/28/23 09:28	11/28/23 23:44	1
Aramite Peak 1	<0.670	U H	4.00	0.670	ug/L		11/28/23 09:28	11/28/23 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		31 - 132	11/28/23 09:28	11/28/23 23:44	1
2-Fluorobiphenyl	82		40 - 130	11/28/23 09:28	11/28/23 23:44	1
2-Fluorophenol (Surr)	39		21 - 114	11/28/23 09:28	11/28/23 23:44	1
Nitrobenzene-d5 (Surr)	55		37 - 130	11/28/23 09:28	11/28/23 23:44	1
Phenol-d5 (Surr)	26		16 - 117	11/28/23 09:28	11/28/23 23:44	1
p-Terphenyl-d14	107		20 - 141	11/28/23 09:28	11/28/23 23:44	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - REDL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1080	H	100	21.4	ug/L		11/28/23 09:28	11/29/23 13:13	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/28/23 09:28	11/29/23 13:13	50
2-Fluorobiphenyl	68		40 - 130	11/28/23 09:28	11/29/23 13:13	50

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-28-D

Lab Sample ID: 860-61847-9

Date Collected: 11/16/23 11:50

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - REDL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/28/23 09:28	11/29/23 13:13	50
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/28/23 09:28	11/29/23 13:13	50
Phenol-d5 (Surr)	0	S1-	16 - 117	11/28/23 09:28	11/29/23 13:13	50
p-Terphenyl-d14	96		20 - 141	11/28/23 09:28	11/29/23 13:13	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.65		0.667	0.175	ug/L		11/20/23 12:55	11/21/23 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	128		37 - 133				11/20/23 12:55	11/21/23 13:04	1

Client Sample ID: DUP-02

Lab Sample ID: 860-61847-10

Date Collected: 11/16/23 00:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<64.4	U	100	64.4	ug/L			11/20/23 21:51	100
1,1,1-Trichloroethane	<58.5	U	500	58.5	ug/L			11/20/23 21:51	100
1,1,2,2-Tetrachloroethane	<47.0	U	100	47.0	ug/L			11/20/23 21:51	100
1,1,2-Trichloro-1,2,2-trifluoroethane	<111	U	1000	111	ug/L			11/20/23 21:51	100
1,1,2-Trichloroethane	<41.1	U	100	41.1	ug/L			11/20/23 21:51	100
1,1-Dichloroethane	<63.5	U	100	63.5	ug/L			11/20/23 21:51	100
1,1-Dichloroethene	<73.8	U	100	73.8	ug/L			11/20/23 21:51	100
1,2,3-Trichloropropane	<47.0	U	100	47.0	ug/L			11/20/23 21:51	100
1,2,4-Trimethylbenzene	<41.7	U	100	41.7	ug/L			11/20/23 21:51	100
1,2-Dibromo-3-Chloropropane	<67.1	U	500	67.1	ug/L			11/20/23 21:51	100
1,2-Dibromoethane	<99.9	U	500	99.9	ug/L			11/20/23 21:51	100
1,2-Dichloroethane	<37.2	U	100	37.2	ug/L			11/20/23 21:51	100
1,2-Dichloropropane	<55.6	U	500	55.6	ug/L			11/20/23 21:51	100
1,3,5-Trimethylbenzene	<41.1	U	100	41.1	ug/L			11/20/23 21:51	100
1,3-Butadiene	<56.8	U	100	56.8	ug/L			11/20/23 21:51	100
2,2,4-Trimethylpentane	<50.0	U	500	50.0	ug/L			11/20/23 21:51	100
2-Butanone (MEK)	<828	U	5000	828	ug/L			11/20/23 21:51	100
2-Hexanone (MBK)	<745	U	5000	745	ug/L			11/20/23 21:51	100
2-Propanol	<523	U	1000	523	ug/L			11/20/23 21:51	100
3-Chloropropene (Allyl Chloride)	<59.7	U	500	59.7	ug/L			11/20/23 21:51	100
4-Methyl-2-pentanone	<749	U	5000	749	ug/L			11/20/23 21:51	100
Acetone	<307	U	10000	307	ug/L			11/20/23 21:51	100
Acetonitrile	<1460	U	10000	1460	ug/L			11/20/23 21:51	100
Acrolein	<1110	U	5000	1110	ug/L			11/20/23 21:51	100
Acrylonitrile	<1430	U	5000	1430	ug/L			11/20/23 21:51	100
alpha-Chlorotoluene	<226	U	500	226	ug/L			11/20/23 21:51	100
Benzene	298		100	46.0	ug/L			11/20/23 21:51	100
Bromodichloromethane	<55.2	U	100	55.2	ug/L			11/20/23 21:51	100
Bromoform	<63.3	U	500	63.3	ug/L			11/20/23 21:51	100
Bromomethane	<142	U	500	142	ug/L			11/20/23 21:51	100
Carbon disulfide	<165	U	500	165	ug/L			11/20/23 21:51	100
Chlorobenzene	170		100	45.5	ug/L			11/20/23 21:51	100

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: DUP-02

Lab Sample ID: 860-61847-10

Date Collected: 11/16/23 00:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	<54.7	U	500	54.7	ug/L			11/20/23 21:51	100
Chloroethane	<198	U	1000	198	ug/L			11/20/23 21:51	100
Chloroform	6090		100	46.4	ug/L			11/20/23 21:51	100
Chloromethane	<204	U	1000	204	ug/L			11/20/23 21:51	100
Chloroprene	<59.8	U	500	59.8	ug/L			11/20/23 21:51	100
cis-1,2-Dichloroethene	<45.7	U	100	45.7	ug/L			11/20/23 21:51	100
cis-1,3-Dichloropropene	<107	U	500	107	ug/L			11/20/23 21:51	100
Cumene (isopropylbenzene)	<59.2	U	100	59.2	ug/L			11/20/23 21:51	100
Cyclohexane	<129	U	500	129	ug/L			11/20/23 21:51	100
Dibromomethane	<35.7	U	100	35.7	ug/L			11/20/23 21:51	100
Dichlorodifluoromethane	<78.5	U	100	78.5	ug/L			11/20/23 21:51	100
Ethyl methacrylate	<112	U	500	112	ug/L			11/20/23 21:51	100
Ethylbenzene	<38.5	U	100	38.5	ug/L			11/20/23 21:51	100
Hexane	<51.7	U	500	51.7	ug/L			11/20/23 21:51	100
Iodomethane	<652	U	2000	652	ug/L			11/20/23 21:51	100
Isobutanol	<1710	U	5000	1710	ug/L			11/20/23 21:51	100
Methacrylonitrile	<272	U	1000	272	ug/L			11/20/23 21:51	100
Methyl methacrylate	<225	U	1000	225	ug/L			11/20/23 21:51	100
Methyl tert-butyl ether	<139	U	500	139	ug/L			11/20/23 21:51	100
Methylene Chloride	<173	U	500	173	ug/L			11/20/23 21:51	100
Propionitrile	<334	U	1000	334	ug/L			11/20/23 21:51	100
Propylbenzene	<42.9	U	100	42.9	ug/L			11/20/23 21:51	100
Styrene	<61.9	U	100	61.9	ug/L			11/20/23 21:51	100
Tetrachloroethene	<65.5	U	100	65.5	ug/L			11/20/23 21:51	100
Tetrahydrofuran	<183	U	1000	183	ug/L			11/20/23 21:51	100
Toluene	<47.5	U	100	47.5	ug/L			11/20/23 21:51	100
trans-1,2-Dichloroethene	<36.8	U	100	36.8	ug/L			11/20/23 21:51	100
trans-1,3-Dichloropropene	<127	U	500	127	ug/L			11/20/23 21:51	100
trans-1,4-Dichloro-2-butene	<135	U	1000	135	ug/L			11/20/23 21:51	100
Trichloroethene	<150	U	500	150	ug/L			11/20/23 21:51	100
Trichlorofluoromethane	<56.0	U	100	56.0	ug/L			11/20/23 21:51	100
Vinyl acetate	<214	U	2000	214	ug/L			11/20/23 21:51	100
Vinyl chloride	<42.8	U	200	42.8	ug/L			11/20/23 21:51	100
Xylenes, Total	<124	U	1000	124	ug/L			11/20/23 21:51	100
m,p-Xylenes	<0.124	U	1.00	0.124	mg/L			11/20/23 21:51	100
o-Xylene	<0.0502	U	0.100	0.0502	mg/L			11/20/23 21:51	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		11/20/23 21:51	100
4-Bromofluorobenzene (Surr)	104		74 - 124		11/20/23 21:51	100
Dibromofluoromethane (Surr)	105		75 - 131		11/20/23 21:51	100
Toluene-d8 (Surr)	99		80 - 120		11/20/23 21:51	100

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	32100		2500	448	ug/L			11/18/23 20:58	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/18/23 20:58	500
4-Bromofluorobenzene (Surr)	102		74 - 124		11/18/23 20:58	500

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: DUP-02

Lab Sample ID: 860-61847-10

Date Collected: 11/16/23 00:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		75 - 131		11/18/23 20:58	500
Toluene-d8 (Surr)	99		80 - 120		11/18/23 20:58	500

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/27/23 14:18	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/27/23 14:18	1
1,2-Dichlorobenzene	1.46	J	2.00	0.296	ug/L		11/22/23 13:06	11/27/23 14:18	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/27/23 14:18	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/27/23 14:18	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/27/23 14:18	1
1,4-Dichlorobenzene	2.22		2.00	0.428	ug/L		11/22/23 13:06	11/27/23 14:18	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/27/23 14:18	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 14:18	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/27/23 14:18	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/27/23 14:18	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/27/23 14:18	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 14:18	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/27/23 14:18	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 14:18	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/27/23 14:18	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/27/23 14:18	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 14:18	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 14:18	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/27/23 14:18	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/27/23 14:18	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/27/23 14:18	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/22/23 13:06	11/27/23 14:18	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 14:18	1
2-Naphthylamine	<0.595	U *	8.00	0.595	ug/L		11/22/23 13:06	11/27/23 14:18	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/27/23 14:18	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 14:18	1
2-Picoline	<0.215	U *1	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 14:18	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/27/23 14:18	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/27/23 14:18	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/27/23 14:18	1
3,3'-Dimethylbenzidine	<0.444	U * - *1	8.00	0.444	ug/L		11/22/23 13:06	11/27/23 14:18	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/27/23 14:18	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/27/23 14:18	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/27/23 14:18	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/27/23 14:18	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/27/23 14:18	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/27/23 14:18	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/27/23 14:18	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 14:18	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/27/23 14:18	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/27/23 14:18	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/27/23 14:18	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/27/23 14:18	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: DUP-02

Lab Sample ID: 860-61847-10

Date Collected: 11/16/23 00:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 14:18	1
Acetophenone	1.78	J	4.00	0.225	ug/L		11/22/23 13:06	11/27/23 14:18	1
alpha, alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/27/23 14:18	1
Aniline	<0.314	U *1	4.00	0.314	ug/L		11/22/23 13:06	11/27/23 14:18	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/27/23 14:18	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 14:18	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 14:18	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 14:18	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/27/23 14:18	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 14:18	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/27/23 14:18	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/27/23 14:18	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/27/23 14:18	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/27/23 14:18	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/27/23 14:18	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 14:18	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 14:18	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 14:18	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 14:18	1
Dibenzofuran	1.30	J	2.00	0.336	ug/L		11/22/23 13:06	11/27/23 14:18	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/27/23 14:18	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/27/23 14:18	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 14:18	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/27/23 14:18	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/27/23 14:18	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/27/23 14:18	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/27/23 14:18	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 14:18	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/27/23 14:18	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/27/23 14:18	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 14:18	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/27/23 14:18	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 14:18	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/27/23 14:18	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/27/23 14:18	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/22/23 13:06	11/27/23 14:18	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/27/23 14:18	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/27/23 14:18	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/27/23 14:18	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 14:18	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/27/23 14:18	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/27/23 14:18	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/27/23 14:18	1
Naphthalene	8.55		2.00	0.423	ug/L		11/22/23 13:06	11/27/23 14:18	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/27/23 14:18	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/27/23 14:18	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/27/23 14:18	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 14:18	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/27/23 14:18	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: DUP-02

Lab Sample ID: 860-61847-10

Date Collected: 11/16/23 00:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/27/23 14:18	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/27/23 14:18	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 14:18	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 14:18	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 14:18	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 14:18	1
o,o',o"-Triethylphosphorothioate	0.786	J	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 14:18	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 14:18	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/27/23 14:18	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/27/23 14:18	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/27/23 14:18	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/27/23 14:18	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/27/23 14:18	1
Phenol	14.3		4.00	0.202	ug/L		11/22/23 13:06	11/27/23 14:18	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/27/23 14:18	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/22/23 13:06	11/27/23 14:18	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/27/23 14:18	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 14:18	1
Pyridine	1.42	J B *1	2.00	0.725	ug/L		11/22/23 13:06	11/27/23 14:18	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/27/23 14:18	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/27/23 14:18	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/27/23 14:18	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/27/23 14:18	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 14:18	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 14:18	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/22/23 13:06	11/27/23 14:18	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/27/23 14:18	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		31 - 132	11/22/23 13:06	11/27/23 14:18	1
2-Fluorobiphenyl	71		40 - 130	11/22/23 13:06	11/27/23 14:18	1
2-Fluorophenol (Surr)	39		21 - 114	11/22/23 13:06	11/27/23 14:18	1
Nitrobenzene-d5 (Surr)	51		37 - 130	11/22/23 13:06	11/27/23 14:18	1
Phenol-d5 (Surr)	30		16 - 117	11/22/23 13:06	11/27/23 14:18	1
p-Terphenyl-d14	111		20 - 141	11/22/23 13:06	11/27/23 14:18	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	893		100	21.4	ug/L		11/22/23 13:06	11/28/23 13:38	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/22/23 13:06	11/28/23 13:38	50
2-Fluorobiphenyl	51		40 - 130	11/22/23 13:06	11/28/23 13:38	50
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/22/23 13:06	11/28/23 13:38	50
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/22/23 13:06	11/28/23 13:38	50
Phenol-d5 (Surr)	0	S1-	16 - 117	11/22/23 13:06	11/28/23 13:38	50
p-Terphenyl-d14	99		20 - 141	11/22/23 13:06	11/28/23 13:38	50

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: DUP-02

Lab Sample ID: 860-61847-10

Date Collected: 11/16/23 00:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	4660	H	4000	182	ug/L		11/28/23 09:28	11/30/23 11:34	500
Diphenyl ether	3950		2000	90.9	ug/L		11/22/23 13:06	11/30/23 16:13	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/28/23 09:28	11/30/23 11:34	500
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/22/23 13:06	11/30/23 16:13	250
2-Fluorobiphenyl	0	S1-	40 - 130	11/28/23 09:28	11/30/23 11:34	500
2-Fluorobiphenyl	0	S1-	40 - 130	11/22/23 13:06	11/30/23 16:13	250
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/28/23 09:28	11/30/23 11:34	500
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/22/23 13:06	11/30/23 16:13	250
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/28/23 09:28	11/30/23 11:34	500
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/22/23 13:06	11/30/23 16:13	250
Phenol-d5 (Surr)	0	S1-	16 - 117	11/28/23 09:28	11/30/23 11:34	500
Phenol-d5 (Surr)	0	S1-	16 - 117	11/22/23 13:06	11/30/23 16:13	250
p-Terphenyl-d14	0	S1-	20 - 141	11/28/23 09:28	11/30/23 11:34	500
p-Terphenyl-d14	0	S1-	20 - 141	11/22/23 13:06	11/30/23 16:13	250

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<0.672	U H	2.00	0.672	ug/L		11/28/23 09:28	11/29/23 00:05	1
1,2,4-Trichlorobenzene	<0.680	U H	2.00	0.680	ug/L		11/28/23 09:28	11/29/23 00:05	1
1,2-Dichlorobenzene	1.32	J H	2.00	0.296	ug/L		11/28/23 09:28	11/29/23 00:05	1
1,3,5-Trinitrobenzene	<1.43	U H	2.00	1.43	ug/L		11/28/23 09:28	11/29/23 00:05	1
1,3-Dichlorobenzene	<0.350	U H	2.00	0.350	ug/L		11/28/23 09:28	11/29/23 00:05	1
1,3-Dinitrobenzene	<0.112	U H	2.00	0.112	ug/L		11/28/23 09:28	11/29/23 00:05	1
1,4-Dichlorobenzene	2.00	H	2.00	0.428	ug/L		11/28/23 09:28	11/29/23 00:05	1
1,4-Naphthoquinone	<1.85	U H	8.00	1.85	ug/L		11/28/23 09:28	11/29/23 00:05	1
1-Naphthylamine	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/29/23 00:05	1
2,2'-oxybis[1-chloropropane]	<0.139	U H	2.00	0.139	ug/L		11/28/23 09:28	11/29/23 00:05	1
2,3,4,6-Tetrachlorophenol	<0.174	U H	2.00	0.174	ug/L		11/28/23 09:28	11/29/23 00:05	1
2,4,5-Trichlorophenol	<0.108	U H	2.00	0.108	ug/L		11/28/23 09:28	11/29/23 00:05	1
2,4,6-Trichlorophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/29/23 00:05	1
2,4-Dichlorophenol	<0.115	U H	2.00	0.115	ug/L		11/28/23 09:28	11/29/23 00:05	1
2,4-Dimethylphenol	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/29/23 00:05	1
2,4-Dinitrophenol	<1.46	U H	8.00	1.46	ug/L		11/28/23 09:28	11/29/23 00:05	1
2,4-Dinitrotoluene	<0.127	U H	2.00	0.127	ug/L		11/28/23 09:28	11/29/23 00:05	1
2,6-Dichlorophenol	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/29/23 00:05	1
2,6-Dinitrotoluene	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/29/23 00:05	1
2-Acetylaminofluorene	<1.52	U H	8.00	1.52	ug/L		11/28/23 09:28	11/29/23 00:05	1
2-Chloronaphthalene	<1.09	U H	8.00	1.09	ug/L		11/28/23 09:28	11/29/23 00:05	1
2-Chlorophenol	<0.0135	U H	2.00	0.0135	ug/L		11/28/23 09:28	11/29/23 00:05	1
2-Methylnaphthalene	<0.480	U H	2.00	0.480	ug/L		11/28/23 09:28	11/29/23 00:05	1
2-Methylphenol	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/29/23 00:05	1
2-Naphthylamine	<0.595	U H	8.00	0.595	ug/L		11/28/23 09:28	11/29/23 00:05	1
2-Nitroaniline	<0.163	U H	4.00	0.163	ug/L		11/28/23 09:28	11/29/23 00:05	1
2-Nitrophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/29/23 00:05	1
2-Picoline	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/29/23 00:05	1
2-Toluidine	<0.934	U H	8.00	0.934	ug/L		11/28/23 09:28	11/29/23 00:05	1
3 & 4 Methylphenol	<0.163	U H	2.00	0.163	ug/L		11/28/23 09:28	11/29/23 00:05	1
3,3'-Dichlorobenzidine	<0.220	U H	4.00	0.220	ug/L		11/28/23 09:28	11/29/23 00:05	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: DUP-02

Lab Sample ID: 860-61847-10

Date Collected: 11/16/23 00:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dimethylbenzidine	<0.444	U H *	8.00	0.444	ug/L		11/28/23 09:28	11/29/23 00:05	1
3-Methylcholanthrene	<0.159	U H	8.00	0.159	ug/L		11/28/23 09:28	11/29/23 00:05	1
3-Nitroaniline	<0.344	U H	2.00	0.344	ug/L		11/28/23 09:28	11/29/23 00:05	1
4,6-Dinitro-2-methylphenol	<0.736	U H	8.00	0.736	ug/L		11/28/23 09:28	11/29/23 00:05	1
4-Aminobiphenyl	<0.297	U H	8.00	0.297	ug/L		11/28/23 09:28	11/29/23 00:05	1
4-Bromophenyl phenyl ether	<0.167	U H	2.00	0.167	ug/L		11/28/23 09:28	11/29/23 00:05	1
4-Chloro-3-methylphenol	<0.157	U H	2.00	0.157	ug/L		11/28/23 09:28	11/29/23 00:05	1
4-Chloroaniline	<0.149	U H	4.00	0.149	ug/L		11/28/23 09:28	11/29/23 00:05	1
4-Chlorophenyl phenyl ether	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/29/23 00:05	1
4-Nitroaniline	<0.247	U H	4.00	0.247	ug/L		11/28/23 09:28	11/29/23 00:05	1
4-Nitroquinoline-1-oxide	<2.15	U H	4.00	2.15	ug/L		11/28/23 09:28	11/29/23 00:05	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U H	8.00	0.0610	ug/L		11/28/23 09:28	11/29/23 00:05	1
Acenaphthene	<0.208	U H	2.00	0.208	ug/L		11/28/23 09:28	11/29/23 00:05	1
Acenaphthylene	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/29/23 00:05	1
Acetophenone	1.96	J H	4.00	0.225	ug/L		11/28/23 09:28	11/29/23 00:05	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U H	4.00	4.00	ug/L		11/28/23 09:28	11/29/23 00:05	1
Aniline	<0.314	U H	4.00	0.314	ug/L		11/28/23 09:28	11/29/23 00:05	1
Anthracene	<0.154	U H	2.00	0.154	ug/L		11/28/23 09:28	11/29/23 00:05	1
Aramite, Total	<0.670	U H	4.00	0.670	ug/L		11/28/23 09:28	11/29/23 00:05	1
Benzo[a]anthracene	<0.150	U H	2.00	0.150	ug/L		11/28/23 09:28	11/29/23 00:05	1
Benzo[a]pyrene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/29/23 00:05	1
Benzo[b]fluoranthene	<0.210	U H	2.00	0.210	ug/L		11/28/23 09:28	11/29/23 00:05	1
Benzo[g,h,i]perylene	<0.143	U H	2.00	0.143	ug/L		11/28/23 09:28	11/29/23 00:05	1
Benzo[k]fluoranthene	<0.166	U H	2.00	0.166	ug/L		11/28/23 09:28	11/29/23 00:05	1
Benzyl alcohol	<4.50	U H	8.00	4.50	ug/L		11/28/23 09:28	11/29/23 00:05	1
Bis(2-chloroethoxy)methane	<0.170	U H	2.00	0.170	ug/L		11/28/23 09:28	11/29/23 00:05	1
Bis(2-chloroethyl)ether	<0.278	U H	2.00	0.278	ug/L		11/28/23 09:28	11/29/23 00:05	1
Bis(2-ethylhexyl) phthalate	<0.225	U H	2.00	0.225	ug/L		11/28/23 09:28	11/29/23 00:05	1
Butyl benzyl phthalate	<0.150	U H	2.00	0.150	ug/L		11/28/23 09:28	11/29/23 00:05	1
Chrysene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/29/23 00:05	1
Diallate	<0.602	U H	8.00	0.602	ug/L		11/28/23 09:28	11/29/23 00:05	1
Dibenz(a,h)anthracene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/29/23 00:05	1
Dibenzofuran	1.57	J H	2.00	0.336	ug/L		11/28/23 09:28	11/29/23 00:05	1
Diethyl phthalate	<0.118	U H	2.00	0.118	ug/L		11/28/23 09:28	11/29/23 00:05	1
Dimethoate	<1.70	U H	8.00	1.70	ug/L		11/28/23 09:28	11/29/23 00:05	1
Dimethyl phthalate	<0.143	U H	2.00	0.143	ug/L		11/28/23 09:28	11/29/23 00:05	1
Di-n-butyl phthalate	<0.800	U H	2.00	0.800	ug/L		11/28/23 09:28	11/29/23 00:05	1
Di-n-octyl phthalate	<0.169	U H	2.00	0.169	ug/L		11/28/23 09:28	11/29/23 00:05	1
Dinoseb	<2.00	U H	4.00	2.00	ug/L		11/28/23 09:28	11/29/23 00:05	1
Disulfoton	<1.39	U H	8.00	1.39	ug/L		11/28/23 09:28	11/29/23 00:05	1
Ethyl methanesulfonate	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/29/23 00:05	1
Ethyl Parathion	<1.41	U H	4.00	1.41	ug/L		11/28/23 09:28	11/29/23 00:05	1
Famphur	<8.00	U H	8.00	8.00	ug/L		11/28/23 09:28	11/29/23 00:05	1
Fluoranthene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/29/23 00:05	1
Fluorene	<0.205	U H	2.00	0.205	ug/L		11/28/23 09:28	11/29/23 00:05	1
Hexachlorobenzene	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/29/23 00:05	1
Hexachlorobutadiene	<0.252	U H	2.00	0.252	ug/L		11/28/23 09:28	11/29/23 00:05	1
Hexachlorocyclopentadiene	<0.431	U H	2.00	0.431	ug/L		11/28/23 09:28	11/29/23 00:05	1
Hexachloroethane	0.799	J H	2.00	0.140	ug/L		11/28/23 09:28	11/29/23 00:05	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: DUP-02

Lab Sample ID: 860-61847-10

Date Collected: 11/16/23 00:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloropropene	<0.213	U H	4.00	0.213	ug/L		11/28/23 09:28	11/29/23 00:05	1
Indeno[1,2,3-cd]pyrene	<0.852	U H	2.00	0.852	ug/L		11/28/23 09:28	11/29/23 00:05	1
Isophorone	<0.168	U H	2.00	0.168	ug/L		11/28/23 09:28	11/29/23 00:05	1
Isosafrole	<2.46	U H	6.00	2.46	ug/L		11/28/23 09:28	11/29/23 00:05	1
Methapyrilene	<0.181	U H	2.00	0.181	ug/L		11/28/23 09:28	11/29/23 00:05	1
Methyl methanesulfonate	<0.0610	U H	2.00	0.0610	ug/L		11/28/23 09:28	11/29/23 00:05	1
Methyl parathion	<1.64	U H	4.00	1.64	ug/L		11/28/23 09:28	11/29/23 00:05	1
Naphthalene	8.81	H	2.00	0.423	ug/L		11/28/23 09:28	11/29/23 00:05	1
Nitrobenzene	<0.934	U H	2.00	0.934	ug/L		11/28/23 09:28	11/29/23 00:05	1
N-Nitro-o-toluidine	<1.31	U H	8.00	1.31	ug/L		11/28/23 09:28	11/29/23 00:05	1
N-Nitrosodiethylamine	<1.54	U H	4.00	1.54	ug/L		11/28/23 09:28	11/29/23 00:05	1
N-Nitrosodimethylamine	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/29/23 00:05	1
N-Nitrosodi-n-butylamine	<1.54	U H	2.00	1.54	ug/L		11/28/23 09:28	11/29/23 00:05	1
N-Nitrosodi-n-propylamine	<0.161	U H	2.00	0.161	ug/L		11/28/23 09:28	11/29/23 00:05	1
N-Nitrosodiphenylamine	<0.155	U H	2.00	0.155	ug/L		11/28/23 09:28	11/29/23 00:05	1
N-Nitrosomethylethylamine	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/29/23 00:05	1
N-Nitrosomorpholine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/29/23 00:05	1
N-Nitrosopiperidine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/29/23 00:05	1
N-Nitrosopyrrolidine	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/29/23 00:05	1
o,o',o"-Triethylphosphorothioate	0.819	J H	8.00	0.0579	ug/L		11/28/23 09:28	11/29/23 00:05	1
p-Dimethylamino azobenzene	<0.0579	U H	8.00	0.0579	ug/L		11/28/23 09:28	11/29/23 00:05	1
Pentachlorobenzene	<1.18	U H	2.00	1.18	ug/L		11/28/23 09:28	11/29/23 00:05	1
Pentachloronitrobenzene	<1.27	U H	2.00	1.27	ug/L		11/28/23 09:28	11/29/23 00:05	1
Pentachlorophenol	<0.441	U H	2.00	0.441	ug/L		11/28/23 09:28	11/29/23 00:05	1
Phenacetin	<1.32	U H	8.00	1.32	ug/L		11/28/23 09:28	11/29/23 00:05	1
Phenanthrene	<0.176	U H	2.00	0.176	ug/L		11/28/23 09:28	11/29/23 00:05	1
Phenol	19.8	H	4.00	0.202	ug/L		11/28/23 09:28	11/29/23 00:05	1
Phorate	<1.40	U H	8.00	1.40	ug/L		11/28/23 09:28	11/29/23 00:05	1
p-Phenylene diamine	<10.0	U H *	10.0	10.0	ug/L		11/28/23 09:28	11/29/23 00:05	1
Pronamide	4.28	H	4.00	1.39	ug/L		11/28/23 09:28	11/29/23 00:05	1
Pyrene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/29/23 00:05	1
Pyridine	<0.725	U H	2.00	0.725	ug/L		11/28/23 09:28	11/29/23 00:05	1
Safrole, Total	<0.183	U H	4.00	0.183	ug/L		11/28/23 09:28	11/29/23 00:05	1
Sulfotepp	<1.43	U H	4.00	1.43	ug/L		11/28/23 09:28	11/29/23 00:05	1
Thionazin	<1.44	U H	8.00	1.44	ug/L		11/28/23 09:28	11/29/23 00:05	1
Aramite Peak 2	<2.74	U H	4.00	2.74	ug/L		11/28/23 09:28	11/29/23 00:05	1
Isosafrole Peak 1	<2.46	U H	6.00	2.46	ug/L		11/28/23 09:28	11/29/23 00:05	1
Diallate Peak 2	<0.602	U H	8.00	0.602	ug/L		11/28/23 09:28	11/29/23 00:05	1
Isosafrole Peak 2	<2.12	U H	6.00	2.12	ug/L		11/28/23 09:28	11/29/23 00:05	1
Diallate Peak 1	<0.675	U H	8.00	0.675	ug/L		11/28/23 09:28	11/29/23 00:05	1
Aramite Peak 1	<0.670	U H	4.00	0.670	ug/L		11/28/23 09:28	11/29/23 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		31 - 132	11/28/23 09:28	11/29/23 00:05	1
2-Fluorobiphenyl	81		40 - 130	11/28/23 09:28	11/29/23 00:05	1
2-Fluorophenol (Surr)	38		21 - 114	11/28/23 09:28	11/29/23 00:05	1
Nitrobenzene-d5 (Surr)	52		37 - 130	11/28/23 09:28	11/29/23 00:05	1
Phenol-d5 (Surr)	30		16 - 117	11/28/23 09:28	11/29/23 00:05	1
p-Terphenyl-d14	114		20 - 141	11/28/23 09:28	11/29/23 00:05	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: DUP-02

Lab Sample ID: 860-61847-10

Date Collected: 11/16/23 00:00

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - REDL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1080	H	100	21.4	ug/L		11/28/23 09:28	11/29/23 13:34	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132				11/28/23 09:28	11/29/23 13:34	50
2-Fluorobiphenyl	75		40 - 130				11/28/23 09:28	11/29/23 13:34	50
2-Fluorophenol (Surr)	0	S1-	21 - 114				11/28/23 09:28	11/29/23 13:34	50
Nitrobenzene-d5 (Surr)	51		37 - 130				11/28/23 09:28	11/29/23 13:34	50
Phenol-d5 (Surr)	0	S1-	16 - 117				11/28/23 09:28	11/29/23 13:34	50
p-Terphenyl-d14	103		20 - 141				11/28/23 09:28	11/29/23 13:34	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.10		0.685	0.180	ug/L		11/20/23 12:55	11/21/23 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	121		37 - 133				11/20/23 12:55	11/21/23 13:33	1

Client Sample ID: MW-26D

Lab Sample ID: 860-61847-11

Date Collected: 11/16/23 13:53

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<129	U	200	129	ug/L			11/20/23 22:12	200
1,1,1-Trichloroethane	<117	U	1000	117	ug/L			11/20/23 22:12	200
1,1,2,2-Tetrachloroethane	<94.0	U	200	94.0	ug/L			11/20/23 22:12	200
1,1,2-Trichloro-1,2,2-trifluoroethane	<222	U	2000	222	ug/L			11/20/23 22:12	200
1,1,2-Trichloroethane	<82.2	U	200	82.2	ug/L			11/20/23 22:12	200
1,1-Dichloroethane	<127	U	200	127	ug/L			11/20/23 22:12	200
1,1-Dichloroethene	<148	U	200	148	ug/L			11/20/23 22:12	200
1,2,3-Trichloropropane	<94.0	U	200	94.0	ug/L			11/20/23 22:12	200
1,2,4-Trimethylbenzene	<83.4	U	200	83.4	ug/L			11/20/23 22:12	200
1,2-Dibromo-3-Chloropropane	<134	U	1000	134	ug/L			11/20/23 22:12	200
1,2-Dibromoethane	<200	U	1000	200	ug/L			11/20/23 22:12	200
1,2-Dichloroethane	<74.4	U	200	74.4	ug/L			11/20/23 22:12	200
1,2-Dichloropropane	<111	U	1000	111	ug/L			11/20/23 22:12	200
1,3,5-Trimethylbenzene	<82.2	U	200	82.2	ug/L			11/20/23 22:12	200
1,3-Butadiene	<114	U	200	114	ug/L			11/20/23 22:12	200
2,2,4-Trimethylpentane	<100	U	1000	100	ug/L			11/20/23 22:12	200
2-Butanone (MEK)	<1660	U	10000	1660	ug/L			11/20/23 22:12	200
2-Hexanone (MBK)	<1490	U	10000	1490	ug/L			11/20/23 22:12	200
2-Propanol	<1050	U	2000	1050	ug/L			11/20/23 22:12	200
3-Chloropropene (Allyl Chloride)	<119	U	1000	119	ug/L			11/20/23 22:12	200
4-Methyl-2-pentanone	<1500	U	10000	1500	ug/L			11/20/23 22:12	200
Acetone	<613	U	20000	613	ug/L			11/20/23 22:12	200
Acetonitrile	<2920	U	20000	2920	ug/L			11/20/23 22:12	200
Acrolein	<2220	U	10000	2220	ug/L			11/20/23 22:12	200
Acrylonitrile	<2860	U	10000	2860	ug/L			11/20/23 22:12	200
alpha-Chlorotoluene	<451	U	1000	451	ug/L			11/20/23 22:12	200
Benzene	774		200	91.9	ug/L			11/20/23 22:12	200
Bromodichloromethane	<110	U	200	110	ug/L			11/20/23 22:12	200

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-26D

Lab Sample ID: 860-61847-11

Date Collected: 11/16/23 13:53

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<127	U	1000	127	ug/L			11/20/23 22:12	200
Bromomethane	<284	U	1000	284	ug/L			11/20/23 22:12	200
Carbon disulfide	<330	U	1000	330	ug/L			11/20/23 22:12	200
Chlorobenzene	237		200	91.0	ug/L			11/20/23 22:12	200
Chlorodibromomethane	<109	U	1000	109	ug/L			11/20/23 22:12	200
Chloroethane	<397	U	2000	397	ug/L			11/20/23 22:12	200
Chloroform	7860		200	92.8	ug/L			11/20/23 22:12	200
Chloromethane	<407	U	2000	407	ug/L			11/20/23 22:12	200
Chloroprene	<120	U	1000	120	ug/L			11/20/23 22:12	200
cis-1,2-Dichloroethene	<91.4	U	200	91.4	ug/L			11/20/23 22:12	200
cis-1,3-Dichloropropene	<213	U	1000	213	ug/L			11/20/23 22:12	200
Cumene (isopropylbenzene)	<118	U	200	118	ug/L			11/20/23 22:12	200
Cyclohexane	<257	U	1000	257	ug/L			11/20/23 22:12	200
Dibromomethane	<71.4	U	200	71.4	ug/L			11/20/23 22:12	200
Dichlorodifluoromethane	<157	U	200	157	ug/L			11/20/23 22:12	200
Ethyl methacrylate	<224	U	1000	224	ug/L			11/20/23 22:12	200
Ethylbenzene	<77.0	U	200	77.0	ug/L			11/20/23 22:12	200
Hexane	<103	U	1000	103	ug/L			11/20/23 22:12	200
Iodomethane	<1300	U	4000	1300	ug/L			11/20/23 22:12	200
Isobutanol	<3420	U	10000	3420	ug/L			11/20/23 22:12	200
Methacrylonitrile	<543	U	2000	543	ug/L			11/20/23 22:12	200
Methyl methacrylate	<450	U	2000	450	ug/L			11/20/23 22:12	200
Methyl tert-butyl ether	<278	U	1000	278	ug/L			11/20/23 22:12	200
Methylene Chloride	<345	U	1000	345	ug/L			11/20/23 22:12	200
Propionitrile	<668	U	2000	668	ug/L			11/20/23 22:12	200
Propylbenzene	<85.8	U	200	85.8	ug/L			11/20/23 22:12	200
Styrene	<124	U	200	124	ug/L			11/20/23 22:12	200
Tetrachloroethene	<131	U	200	131	ug/L			11/20/23 22:12	200
Tetrahydrofuran	<367	U	2000	367	ug/L			11/20/23 22:12	200
Toluene	<95.0	U	200	95.0	ug/L			11/20/23 22:12	200
trans-1,2-Dichloroethene	<73.6	U	200	73.6	ug/L			11/20/23 22:12	200
trans-1,3-Dichloropropene	<253	U	1000	253	ug/L			11/20/23 22:12	200
trans-1,4-Dichloro-2-butene	<270	U	2000	270	ug/L			11/20/23 22:12	200
Trichloroethene	<300	U	1000	300	ug/L			11/20/23 22:12	200
Trichlorofluoromethane	<112	U	200	112	ug/L			11/20/23 22:12	200
Vinyl acetate	<428	U	4000	428	ug/L			11/20/23 22:12	200
Vinyl chloride	<85.6	U	400	85.6	ug/L			11/20/23 22:12	200
Xylenes, Total	<248	U	2000	248	ug/L			11/20/23 22:12	200
m,p-Xylenes	<0.248	U	2.00	0.248	mg/L			11/20/23 22:12	200
o-Xylene	<0.100	U	0.200	0.100	mg/L			11/20/23 22:12	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		11/20/23 22:12	200
4-Bromofluorobenzene (Surr)	100		74 - 124		11/20/23 22:12	200
Dibromofluoromethane (Surr)	107		75 - 131		11/20/23 22:12	200
Toluene-d8 (Surr)	98		80 - 120		11/20/23 22:12	200

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	77100		5000	896	ug/L			11/18/23 21:18	1000

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-26D

Lab Sample ID: 860-61847-11

Date Collected: 11/16/23 13:53

Matrix: Water

Date Received: 11/17/23 09:23

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/18/23 21:18	1000
4-Bromofluorobenzene (Surr)	100		74 - 124		11/18/23 21:18	1000
Dibromofluoromethane (Surr)	102		75 - 131		11/18/23 21:18	1000
Toluene-d8 (Surr)	99		80 - 120		11/18/23 21:18	1000

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/27/23 13:57	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/27/23 13:57	1
1,2-Dichlorobenzene	1.55	J	2.00	0.296	ug/L		11/22/23 13:06	11/27/23 13:57	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/27/23 13:57	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/27/23 13:57	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/27/23 13:57	1
1,4-Dichlorobenzene	2.46		2.00	0.428	ug/L		11/22/23 13:06	11/27/23 13:57	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/27/23 13:57	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 13:57	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/27/23 13:57	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/27/23 13:57	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/27/23 13:57	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 13:57	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/27/23 13:57	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 13:57	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/27/23 13:57	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/27/23 13:57	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 13:57	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 13:57	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/27/23 13:57	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/27/23 13:57	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/27/23 13:57	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/22/23 13:06	11/27/23 13:57	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 13:57	1
2-Naphthylamine	<0.595	U *	8.00	0.595	ug/L		11/22/23 13:06	11/27/23 13:57	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/27/23 13:57	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 13:57	1
2-Picoline	<0.215	U *1	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 13:57	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/27/23 13:57	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/27/23 13:57	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/27/23 13:57	1
3,3'-Dimethylbenzidine	<0.444	U * - *1	8.00	0.444	ug/L		11/22/23 13:06	11/27/23 13:57	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/27/23 13:57	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/27/23 13:57	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/27/23 13:57	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/27/23 13:57	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/27/23 13:57	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/27/23 13:57	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/27/23 13:57	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 13:57	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/27/23 13:57	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/27/23 13:57	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/27/23 13:57	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-26D

Lab Sample ID: 860-61847-11

Date Collected: 11/16/23 13:53

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/27/23 13:57	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 13:57	1
Acetophenone	4.70		4.00	0.225	ug/L		11/22/23 13:06	11/27/23 13:57	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/27/23 13:57	1
Aniline	<0.314	U *1	4.00	0.314	ug/L		11/22/23 13:06	11/27/23 13:57	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/27/23 13:57	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 13:57	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 13:57	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 13:57	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/27/23 13:57	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 13:57	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/27/23 13:57	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/27/23 13:57	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/27/23 13:57	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/27/23 13:57	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/27/23 13:57	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 13:57	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 13:57	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 13:57	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 13:57	1
Dibenzofuran	2.01		2.00	0.336	ug/L		11/22/23 13:06	11/27/23 13:57	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/27/23 13:57	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/27/23 13:57	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 13:57	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/27/23 13:57	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/27/23 13:57	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/27/23 13:57	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/27/23 13:57	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 13:57	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/27/23 13:57	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/27/23 13:57	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 13:57	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/27/23 13:57	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 13:57	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/27/23 13:57	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/27/23 13:57	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/22/23 13:06	11/27/23 13:57	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/27/23 13:57	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/27/23 13:57	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/27/23 13:57	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 13:57	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/27/23 13:57	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/27/23 13:57	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/27/23 13:57	1
Naphthalene	11.4		2.00	0.423	ug/L		11/22/23 13:06	11/27/23 13:57	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/27/23 13:57	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/27/23 13:57	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/27/23 13:57	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 13:57	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-26D

Lab Sample ID: 860-61847-11

Date Collected: 11/16/23 13:53

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/27/23 13:57	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/27/23 13:57	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/27/23 13:57	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 13:57	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 13:57	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 13:57	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 13:57	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 13:57	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 13:57	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/27/23 13:57	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/27/23 13:57	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/27/23 13:57	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/27/23 13:57	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/27/23 13:57	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/27/23 13:57	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/22/23 13:06	11/27/23 13:57	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/27/23 13:57	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 13:57	1
Pyridine	<0.725	U *1	2.00	0.725	ug/L		11/22/23 13:06	11/27/23 13:57	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/27/23 13:57	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/27/23 13:57	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/27/23 13:57	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/27/23 13:57	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 13:57	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 13:57	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/22/23 13:06	11/27/23 13:57	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/27/23 13:57	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		31 - 132	11/22/23 13:06	11/27/23 13:57	1
2-Fluorobiphenyl	80		40 - 130	11/22/23 13:06	11/27/23 13:57	1
2-Fluorophenol (Surr)	44		21 - 114	11/22/23 13:06	11/27/23 13:57	1
Nitrobenzene-d5 (Surr)	53		37 - 130	11/22/23 13:06	11/27/23 13:57	1
Phenol-d5 (Surr)	34		16 - 117	11/22/23 13:06	11/27/23 13:57	1
p-Terphenyl-d14	111		20 - 141	11/22/23 13:06	11/27/23 13:57	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1450		100	21.4	ug/L		11/22/23 13:06	11/28/23 13:17	50
Diphenyl ether	4190	H	4000	182	ug/L		11/28/23 09:28	11/30/23 11:55	500
Phenol	274		200	10.1	ug/L		11/22/23 13:06	11/28/23 13:17	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/22/23 13:06	11/28/23 13:17	50
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/28/23 09:28	11/30/23 11:55	500
2-Fluorobiphenyl	82		40 - 130	11/22/23 13:06	11/28/23 13:17	50
2-Fluorobiphenyl	0	S1-	40 - 130	11/28/23 09:28	11/30/23 11:55	500
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/22/23 13:06	11/28/23 13:17	50
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/28/23 09:28	11/30/23 11:55	500

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-26D

Lab Sample ID: 860-61847-11

Date Collected: 11/16/23 13:53

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/22/23 13:06	11/28/23 13:17	50
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/28/23 09:28	11/30/23 11:55	500
Phenol-d5 (Surr)	0	S1-	16 - 117	11/22/23 13:06	11/28/23 13:17	50
Phenol-d5 (Surr)	0	S1-	16 - 117	11/28/23 09:28	11/30/23 11:55	500
p-Terphenyl-d14	100		20 - 141	11/22/23 13:06	11/28/23 13:17	50
p-Terphenyl-d14	0	S1-	20 - 141	11/28/23 09:28	11/30/23 11:55	500

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	5870		4000	182	ug/L		11/22/23 13:06	11/30/23 13:40	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132	11/22/23 13:06	11/30/23 13:40	500
2-Fluorobiphenyl	0	S1-	40 - 130	11/22/23 13:06	11/30/23 13:40	500
2-Fluorophenol (Surr)	0	S1-	21 - 114	11/22/23 13:06	11/30/23 13:40	500
Nitrobenzene-d5 (Surr)	0	S1-	37 - 130	11/22/23 13:06	11/30/23 13:40	500
Phenol-d5 (Surr)	0	S1-	16 - 117	11/22/23 13:06	11/30/23 13:40	500
p-Terphenyl-d14	0	S1-	20 - 141	11/22/23 13:06	11/30/23 13:40	500

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<0.672	U H	2.00	0.672	ug/L		11/28/23 09:28	11/29/23 00:26	1
1,2,4-Trichlorobenzene	<0.680	U H	2.00	0.680	ug/L		11/28/23 09:28	11/29/23 00:26	1
1,2-Dichlorobenzene	1.24	J H	2.00	0.296	ug/L		11/28/23 09:28	11/29/23 00:26	1
1,3,5-Trinitrobenzene	<1.43	U H	2.00	1.43	ug/L		11/28/23 09:28	11/29/23 00:26	1
1,3-Dichlorobenzene	<0.350	U H	2.00	0.350	ug/L		11/28/23 09:28	11/29/23 00:26	1
1,3-Dinitrobenzene	<0.112	U H	2.00	0.112	ug/L		11/28/23 09:28	11/29/23 00:26	1
1,4-Dichlorobenzene	1.71	J H	2.00	0.428	ug/L		11/28/23 09:28	11/29/23 00:26	1
1,4-Naphthoquinone	<1.85	U H	8.00	1.85	ug/L		11/28/23 09:28	11/29/23 00:26	1
1-Naphthylamine	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/29/23 00:26	1
2,2'-oxybis[1-chloropropane]	<0.139	U H	2.00	0.139	ug/L		11/28/23 09:28	11/29/23 00:26	1
2,3,4,6-Tetrachlorophenol	<0.174	U H	2.00	0.174	ug/L		11/28/23 09:28	11/29/23 00:26	1
2,4,5-Trichlorophenol	<0.108	U H	2.00	0.108	ug/L		11/28/23 09:28	11/29/23 00:26	1
2,4,6-Trichlorophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/29/23 00:26	1
2,4-Dichlorophenol	<0.115	U H	2.00	0.115	ug/L		11/28/23 09:28	11/29/23 00:26	1
2,4-Dimethylphenol	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/29/23 00:26	1
2,4-Dinitrophenol	<1.46	U H	8.00	1.46	ug/L		11/28/23 09:28	11/29/23 00:26	1
2,4-Dinitrotoluene	<0.127	U H	2.00	0.127	ug/L		11/28/23 09:28	11/29/23 00:26	1
2,6-Dichlorophenol	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/29/23 00:26	1
2,6-Dinitrotoluene	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/29/23 00:26	1
2-Acetylaminofluorene	<1.52	U H	8.00	1.52	ug/L		11/28/23 09:28	11/29/23 00:26	1
2-Chloronaphthalene	<1.09	U H	8.00	1.09	ug/L		11/28/23 09:28	11/29/23 00:26	1
2-Chlorophenol	<0.0135	U H	2.00	0.0135	ug/L		11/28/23 09:28	11/29/23 00:26	1
2-Methylnaphthalene	<0.480	U H	2.00	0.480	ug/L		11/28/23 09:28	11/29/23 00:26	1
2-Methylphenol	0.443	J H	2.00	0.159	ug/L		11/28/23 09:28	11/29/23 00:26	1
2-Naphthylamine	<0.595	U H	8.00	0.595	ug/L		11/28/23 09:28	11/29/23 00:26	1
2-Nitroaniline	<0.163	U H	4.00	0.163	ug/L		11/28/23 09:28	11/29/23 00:26	1
2-Nitrophenol	<0.135	U H	2.00	0.135	ug/L		11/28/23 09:28	11/29/23 00:26	1
2-Picoline	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/29/23 00:26	1
2-Toluidine	<0.934	U H	8.00	0.934	ug/L		11/28/23 09:28	11/29/23 00:26	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-26D

Lab Sample ID: 860-61847-11

Date Collected: 11/16/23 13:53

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	<0.163	U H	2.00	0.163	ug/L		11/28/23 09:28	11/29/23 00:26	1
3,3'-Dichlorobenzidine	<0.220	U H	4.00	0.220	ug/L		11/28/23 09:28	11/29/23 00:26	1
3,3'-Dimethylbenzidine	<0.444	U H *	8.00	0.444	ug/L		11/28/23 09:28	11/29/23 00:26	1
3-Methylcholanthrene	<0.159	U H	8.00	0.159	ug/L		11/28/23 09:28	11/29/23 00:26	1
3-Nitroaniline	<0.344	U H	2.00	0.344	ug/L		11/28/23 09:28	11/29/23 00:26	1
4,6-Dinitro-2-methylphenol	<0.736	U H	8.00	0.736	ug/L		11/28/23 09:28	11/29/23 00:26	1
4-Aminobiphenyl	<0.297	U H	8.00	0.297	ug/L		11/28/23 09:28	11/29/23 00:26	1
4-Bromophenyl phenyl ether	<0.167	U H	2.00	0.167	ug/L		11/28/23 09:28	11/29/23 00:26	1
4-Chloro-3-methylphenol	<0.157	U H	2.00	0.157	ug/L		11/28/23 09:28	11/29/23 00:26	1
4-Chloroaniline	<0.149	U H	4.00	0.149	ug/L		11/28/23 09:28	11/29/23 00:26	1
4-Chlorophenyl phenyl ether	<0.232	U H	2.00	0.232	ug/L		11/28/23 09:28	11/29/23 00:26	1
4-Nitroaniline	<0.247	U H	4.00	0.247	ug/L		11/28/23 09:28	11/29/23 00:26	1
4-Nitroquinoline-1-oxide	<2.15	U H	4.00	2.15	ug/L		11/28/23 09:28	11/29/23 00:26	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U H	8.00	0.0610	ug/L		11/28/23 09:28	11/29/23 00:26	1
Acenaphthene	<0.208	U H	2.00	0.208	ug/L		11/28/23 09:28	11/29/23 00:26	1
Acenaphthylene	<0.215	U H	2.00	0.215	ug/L		11/28/23 09:28	11/29/23 00:26	1
Acetophenone	10.1	H	4.00	0.225	ug/L		11/28/23 09:28	11/29/23 00:26	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U H	4.00	4.00	ug/L		11/28/23 09:28	11/29/23 00:26	1
Aniline	<0.314	U H	4.00	0.314	ug/L		11/28/23 09:28	11/29/23 00:26	1
Anthracene	<0.154	U H	2.00	0.154	ug/L		11/28/23 09:28	11/29/23 00:26	1
Aramite, Total	<0.670	U H	4.00	0.670	ug/L		11/28/23 09:28	11/29/23 00:26	1
Benzo[a]anthracene	<0.150	U H	2.00	0.150	ug/L		11/28/23 09:28	11/29/23 00:26	1
Benzo[a]pyrene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/29/23 00:26	1
Benzo[b]fluoranthene	<0.210	U H	2.00	0.210	ug/L		11/28/23 09:28	11/29/23 00:26	1
Benzo[g,h,i]perylene	<0.143	U H	2.00	0.143	ug/L		11/28/23 09:28	11/29/23 00:26	1
Benzo[k]fluoranthene	<0.166	U H	2.00	0.166	ug/L		11/28/23 09:28	11/29/23 00:26	1
Benzyl alcohol	<4.50	U H	8.00	4.50	ug/L		11/28/23 09:28	11/29/23 00:26	1
Bis(2-chloroethoxy)methane	<0.170	U H	2.00	0.170	ug/L		11/28/23 09:28	11/29/23 00:26	1
Bis(2-chloroethyl)ether	<0.278	U H	2.00	0.278	ug/L		11/28/23 09:28	11/29/23 00:26	1
Bis(2-ethylhexyl) phthalate	<0.225	U H	2.00	0.225	ug/L		11/28/23 09:28	11/29/23 00:26	1
Butyl benzyl phthalate	<0.150	U H	2.00	0.150	ug/L		11/28/23 09:28	11/29/23 00:26	1
Chrysene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/29/23 00:26	1
Diallate	<0.602	U H	8.00	0.602	ug/L		11/28/23 09:28	11/29/23 00:26	1
Dibenz(a,h)anthracene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/29/23 00:26	1
Dibenzofuran	1.75	J H	2.00	0.336	ug/L		11/28/23 09:28	11/29/23 00:26	1
Diethyl phthalate	<0.118	U H	2.00	0.118	ug/L		11/28/23 09:28	11/29/23 00:26	1
Dimethoate	<1.70	U H	8.00	1.70	ug/L		11/28/23 09:28	11/29/23 00:26	1
Dimethyl phthalate	<0.143	U H	2.00	0.143	ug/L		11/28/23 09:28	11/29/23 00:26	1
Di-n-butyl phthalate	<0.800	U H	2.00	0.800	ug/L		11/28/23 09:28	11/29/23 00:26	1
Di-n-octyl phthalate	<0.169	U H	2.00	0.169	ug/L		11/28/23 09:28	11/29/23 00:26	1
Dinoseb	<2.00	U H	4.00	2.00	ug/L		11/28/23 09:28	11/29/23 00:26	1
Disulfoton	<1.39	U H	8.00	1.39	ug/L		11/28/23 09:28	11/29/23 00:26	1
Ethyl methanesulfonate	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/29/23 00:26	1
Ethyl Parathion	<1.41	U H	4.00	1.41	ug/L		11/28/23 09:28	11/29/23 00:26	1
Famphur	<8.00	U H	8.00	8.00	ug/L		11/28/23 09:28	11/29/23 00:26	1
Fluoranthene	<0.148	U H	2.00	0.148	ug/L		11/28/23 09:28	11/29/23 00:26	1
Fluorene	<0.205	U H	2.00	0.205	ug/L		11/28/23 09:28	11/29/23 00:26	1
Hexachlorobenzene	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/29/23 00:26	1
Hexachlorobutadiene	<0.252	U H	2.00	0.252	ug/L		11/28/23 09:28	11/29/23 00:26	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-26D

Lab Sample ID: 860-61847-11

Date Collected: 11/16/23 13:53

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.431	U H	2.00	0.431	ug/L		11/28/23 09:28	11/29/23 00:26	1
Hexachloroethane	0.605	J H	2.00	0.140	ug/L		11/28/23 09:28	11/29/23 00:26	1
Hexachloropropene	<0.213	U H	4.00	0.213	ug/L		11/28/23 09:28	11/29/23 00:26	1
Indeno[1,2,3-cd]pyrene	<0.852	U H	2.00	0.852	ug/L		11/28/23 09:28	11/29/23 00:26	1
Isophorone	<0.168	U H	2.00	0.168	ug/L		11/28/23 09:28	11/29/23 00:26	1
Isosafrole	<2.46	U H	6.00	2.46	ug/L		11/28/23 09:28	11/29/23 00:26	1
Methapyrilene	<0.181	U H	2.00	0.181	ug/L		11/28/23 09:28	11/29/23 00:26	1
Methyl methanesulfonate	<0.0610	U H	2.00	0.0610	ug/L		11/28/23 09:28	11/29/23 00:26	1
Methyl parathion	<1.64	U H	4.00	1.64	ug/L		11/28/23 09:28	11/29/23 00:26	1
Naphthalene	8.85	H	2.00	0.423	ug/L		11/28/23 09:28	11/29/23 00:26	1
Nitrobenzene	<0.934	U H	2.00	0.934	ug/L		11/28/23 09:28	11/29/23 00:26	1
N-Nitro-o-toluidine	<1.31	U H	8.00	1.31	ug/L		11/28/23 09:28	11/29/23 00:26	1
N-Nitrosodiethylamine	<1.54	U H	4.00	1.54	ug/L		11/28/23 09:28	11/29/23 00:26	1
N-Nitrosodimethylamine	<0.126	U H	2.00	0.126	ug/L		11/28/23 09:28	11/29/23 00:26	1
N-Nitrosodi-n-butylamine	<1.54	U H	2.00	1.54	ug/L		11/28/23 09:28	11/29/23 00:26	1
N-Nitrosodi-n-propylamine	<0.161	U H	2.00	0.161	ug/L		11/28/23 09:28	11/29/23 00:26	1
N-Nitrosodiphenylamine	<0.155	U H	2.00	0.155	ug/L		11/28/23 09:28	11/29/23 00:26	1
N-Nitrosomethylethylamine	<0.199	U H	2.00	0.199	ug/L		11/28/23 09:28	11/29/23 00:26	1
N-Nitrosomorpholine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/29/23 00:26	1
N-Nitrosopiperidine	<1.44	U H	4.00	1.44	ug/L		11/28/23 09:28	11/29/23 00:26	1
N-Nitrosopyrrolidine	<1.38	U H	4.00	1.38	ug/L		11/28/23 09:28	11/29/23 00:26	1
o,o',o"-Triethylphosphorothioate	<0.0579	U H	8.00	0.0579	ug/L		11/28/23 09:28	11/29/23 00:26	1
p-Dimethylamino azobenzene	<0.0579	U H	8.00	0.0579	ug/L		11/28/23 09:28	11/29/23 00:26	1
Pentachlorobenzene	<1.18	U H	2.00	1.18	ug/L		11/28/23 09:28	11/29/23 00:26	1
Pentachloronitrobenzene	<1.27	U H	2.00	1.27	ug/L		11/28/23 09:28	11/29/23 00:26	1
Pentachlorophenol	<0.441	U H	2.00	0.441	ug/L		11/28/23 09:28	11/29/23 00:26	1
Phenacetin	<1.32	U H	8.00	1.32	ug/L		11/28/23 09:28	11/29/23 00:26	1
Phenanthrene	<0.176	U H	2.00	0.176	ug/L		11/28/23 09:28	11/29/23 00:26	1
Phorate	<1.40	U H	8.00	1.40	ug/L		11/28/23 09:28	11/29/23 00:26	1
p-Phenylene diamine	<10.0	U H *	10.0	10.0	ug/L		11/28/23 09:28	11/29/23 00:26	1
Pronamide	<1.39	U H	4.00	1.39	ug/L		11/28/23 09:28	11/29/23 00:26	1
Pyrene	<0.159	U H	2.00	0.159	ug/L		11/28/23 09:28	11/29/23 00:26	1
Pyridine	<0.725	U H	2.00	0.725	ug/L		11/28/23 09:28	11/29/23 00:26	1
Safrole, Total	<0.183	U H	4.00	0.183	ug/L		11/28/23 09:28	11/29/23 00:26	1
Sulfotepp	<1.43	U H	4.00	1.43	ug/L		11/28/23 09:28	11/29/23 00:26	1
Thionazin	<1.44	U H	8.00	1.44	ug/L		11/28/23 09:28	11/29/23 00:26	1
Aramite Peak 2	<2.74	U H	4.00	2.74	ug/L		11/28/23 09:28	11/29/23 00:26	1
Isosafrole Peak 1	<2.46	U H	6.00	2.46	ug/L		11/28/23 09:28	11/29/23 00:26	1
Diallate Peak 2	<0.602	U H	8.00	0.602	ug/L		11/28/23 09:28	11/29/23 00:26	1
Isosafrole Peak 2	<2.12	U H	6.00	2.12	ug/L		11/28/23 09:28	11/29/23 00:26	1
Diallate Peak 1	<0.675	U H	8.00	0.675	ug/L		11/28/23 09:28	11/29/23 00:26	1
Aramite Peak 1	<0.670	U H	4.00	0.670	ug/L		11/28/23 09:28	11/29/23 00:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		31 - 132	11/28/23 09:28	11/29/23 00:26	1
2-Fluorobiphenyl	69		40 - 130	11/28/23 09:28	11/29/23 00:26	1
2-Fluorophenol (Surr)	42		21 - 114	11/28/23 09:28	11/29/23 00:26	1
Nitrobenzene-d5 (Surr)	54		37 - 130	11/28/23 09:28	11/29/23 00:26	1
Phenol-d5 (Surr)	33		16 - 117	11/28/23 09:28	11/29/23 00:26	1
p-Terphenyl-d14	67		20 - 141	11/28/23 09:28	11/29/23 00:26	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-26D

Lab Sample ID: 860-61847-11

Date Collected: 11/16/23 13:53

Matrix: Water

Date Received: 11/17/23 09:23

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - REDL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1180	H	100	21.4	ug/L		11/28/23 09:28	11/29/23 13:55	50
Phenol	1710	H	200	10.1	ug/L		11/28/23 09:28	11/29/23 13:55	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	31 - 132				11/28/23 09:28	11/29/23 13:55	50
2-Fluorobiphenyl	59		40 - 130				11/28/23 09:28	11/29/23 13:55	50
2-Fluorophenol (Surr)	0	S1-	21 - 114				11/28/23 09:28	11/29/23 13:55	50
Nitrobenzene-d5 (Surr)	40		37 - 130				11/28/23 09:28	11/29/23 13:55	50
Phenol-d5 (Surr)	0	S1-	16 - 117				11/28/23 09:28	11/29/23 13:55	50
p-Terphenyl-d14	65		20 - 141				11/28/23 09:28	11/29/23 13:55	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	6.23		0.673	0.177	ug/L		11/20/23 12:55	11/21/23 14:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	130		37 - 133				11/20/23 12:55	11/21/23 14:03	1

Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
400-246535-A-9 MS	Matrix Spike	102	109	106	104
860-61847-1	TB-12 (111523)	101	99	102	98
860-61847-2	MW-33-D	104	100	102	98
860-61847-3	MW-30-D	102	98	103	97
860-61847-3 - DL	MW-30-D	105	111	109	106
860-61847-3 MS	MW-30-D	95	98	102	97
860-61847-4	RB-02	103	102	102	99
860-61847-5	MW-29-S	102	100	105	98
860-61847-5 - DL	MW-29-S	103	102	106	99
860-61847-5 MS	MW-29-S	97	99	103	98
860-61847-6	MW-28-S	102	100	104	97
860-61847-7	MW-29-D	102	101	105	98
860-61847-8	FB-02	101	101	103	98
860-61847-9 - DL	MW-28-D	103	101	105	99
860-61847-9	MW-28-D	106	101	106	99
860-61847-10 - DL	DUP-02	102	102	104	99
860-61847-10	DUP-02	105	104	105	99
860-61847-11 - DL	MW-26D	102	100	102	99
860-61847-11	MW-26D	106	100	107	98
LCS 860-131725/3	Lab Control Sample	97	98	102	98
LCS 860-131746/3	Lab Control Sample	103	111	107	101
LCS 860-131898/3	Lab Control Sample	99	100	105	98
LCSD 860-131725/4	Lab Control Sample Dup	96	99	100	97
LCSD 860-131746/4	Lab Control Sample Dup	104	114	103	104
LCSD 860-131898/4	Lab Control Sample Dup	98	99	102	99
MB 860-131725/9	Method Blank	102	100	104	98
MB 860-131746/10	Method Blank	106	110	109	105
MB 860-131898/9	Method Blank	104	100	105	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	2FP (19-120)	FBP (43-130)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-61847-2	MW-33-D				123		
860-61847-3	MW-30-D				119		
860-61847-4	RB-02				119		
860-61847-5	MW-29-S				121		
860-61847-6	MW-28-S				115		
860-61847-7	MW-29-D				117		
860-61847-9	MW-28-D				128		
860-61847-10	DUP-02				121		
860-61847-11	MW-26D				130		

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Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	2FP (19-120)	FBP (43-130)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
LCS 860-131915/2-A	Lab Control Sample	111	53	124	143 S1+	40	100
LCSD 860-131915/3-A	Lab Control Sample Dup	98	50	109	119	38	96
MB 860-131915/1-A	Method Blank	57	42	61	74	33	78

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 2FP = 2-Fluorophenol (Surr)
 FBP = 2-Fluorobiphenyl
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (31-132)	FBP (40-130)	2FP (21-114)	NBZ (37-130)	PHL (16-117)	TPHd14 (20-141)
860-61847-2	MW-33-D	58	57	36	50	23	97
860-61847-2 - DL	MW-33-D	0 S1-	64	40	50	0 S1-	97
860-61847-2 - RE	MW-33-D	57	67	37	54	25	65
860-61847-2 - DL	MW-33-D	0 S1-	64	0 S1-	0 S1-	0 S1-	63
860-61847-2 - DL2	MW-33-D	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
860-61847-2 - DL2	MW-33-D	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
860-61847-3	MW-30-D	58	73	40	61	25	80
860-61847-3 - DL	MW-30-D	39	67	39	54	13 S1-	65
860-61847-3	MW-30-D	57	82	42	62	22	75
860-61847-4	RB-02	63	72	46	64	29	86
860-61847-4 - RE	RB-02	70	67	46	65	24	99
860-61847-5	MW-29-S	59	64	40	55	21	90
860-61847-5 - RE	MW-29-S	66	70	42	59	23	112
860-61847-6	MW-28-S	82	77	41	45	32	89
860-61847-6 - DL	MW-28-S	0 S1-	53	0 S1-	0 S1-	0 S1-	78
860-61847-6 - RE	MW-28-S	91	67	40	42	30	104
860-61847-6 - REDL	MW-28-S	0 S1-	45	0 S1-	0 S1-	0 S1-	110
860-61847-7	MW-29-D	70	69	34	45	21	94
860-61847-7 - DL	MW-29-D	0 S1-	72	0 S1-	60	0 S1-	96
860-61847-7 - RE	MW-29-D	82	73	43	48	25	103
860-61847-7 - REDL	MW-29-D	41	66	20 S1-	31 S1-	0 S1-	104
860-61847-9	MW-28-D	92	88	44	61	33	104
860-61847-9 - DL	MW-28-D	0 S1-	78	0 S1-	0 S1-	0 S1-	84
860-61847-9 - RE	MW-28-D	96	82	39	55	26	107
860-61847-9 - REDL	MW-28-D	0 S1-	68	0 S1-	0 S1-	0 S1-	96
860-61847-9 - DL2	MW-28-D	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
860-61847-9	MW-28-D	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
860-61847-10	DUP-02	82	71	39	51	30	111
860-61847-10 - DL	DUP-02	0 S1-	51	0 S1-	0 S1-	0 S1-	99
860-61847-10 - RE	DUP-02	96	81	38	52	30	114
860-61847-10 - REDL	DUP-02	0 S1-	75	0 S1-	51	0 S1-	103
860-61847-10 - DL2	DUP-02	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
860-61847-10 - DL2	DUP-02	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-

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Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (31-132)	FBP (40-130)	2FP (21-114)	NBZ (37-130)	PHL (16-117)	TPHd14 (20-141)
860-61847-11	MW-26D	92	80	44	53	34	111
860-61847-11 - DL	MW-26D	0 S1-	82	0 S1-	0 S1-	0 S1-	100
860-61847-11 - RE	MW-26D	67	69	42	54	33	67
860-61847-11 - REDL	MW-26D	0 S1-	59	0 S1-	40	0 S1-	65
860-61847-11 - DL2	MW-26D	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
860-61847-11 - DL	MW-26D	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-	0 S1-
860-61897-A-9-B MS	Matrix Spike	86	72	48	66	35	106
860-61897-A-9-C MSD	Matrix Spike Duplicate	97	83	58	76	40	114
LCS 860-132355/2-A	Lab Control Sample	66	74	46	63	33	101
LCS 860-132655/24-A	Lab Control Sample	79	69	44	61	32	101
LCSD 860-132355/3-A	Lab Control Sample Dup	73	74	49	67	36	85
LCSD 860-132655/25-A	Lab Control Sample Dup	68	59	39	54	29	103
MB 860-132355/1-A	Method Blank	45	58	38	55	20	84
MB 860-132655/1-A	Method Blank	45	57	40	52	20	98

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-131725/9

Matrix: Water

Analysis Batch: 131725

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/18/23 14:08	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/18/23 14:08	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/18/23 14:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/18/23 14:08	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/18/23 14:08	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/18/23 14:08	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/18/23 14:08	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/18/23 14:08	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/18/23 14:08	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/18/23 14:08	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/18/23 14:08	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/18/23 14:08	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/18/23 14:08	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/18/23 14:08	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/18/23 14:08	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/18/23 14:08	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/18/23 14:08	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/18/23 14:08	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/18/23 14:08	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/18/23 14:08	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/18/23 14:08	1
Acetone	<3.07	U	100	3.07	ug/L			11/18/23 14:08	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/18/23 14:08	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/18/23 14:08	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/18/23 14:08	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/18/23 14:08	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/18/23 14:08	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/18/23 14:08	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/18/23 14:08	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/18/23 14:08	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/18/23 14:08	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/18/23 14:08	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/18/23 14:08	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/18/23 14:08	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/18/23 14:08	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/18/23 14:08	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/18/23 14:08	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/18/23 14:08	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/18/23 14:08	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/18/23 14:08	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/18/23 14:08	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/18/23 14:08	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/18/23 14:08	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/18/23 14:08	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/18/23 14:08	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/18/23 14:08	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/18/23 14:08	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/18/23 14:08	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131725/9

Matrix: Water

Analysis Batch: 131725

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/18/23 14:08	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/18/23 14:08	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/18/23 14:08	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/18/23 14:08	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/18/23 14:08	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/18/23 14:08	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/18/23 14:08	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/18/23 14:08	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/18/23 14:08	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/18/23 14:08	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/18/23 14:08	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/18/23 14:08	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/18/23 14:08	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/18/23 14:08	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/18/23 14:08	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/18/23 14:08	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/18/23 14:08	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/18/23 14:08	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/18/23 14:08	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/18/23 14:08	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/18/23 14:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		11/18/23 14:08	1
4-Bromofluorobenzene (Surr)	100		74 - 124		11/18/23 14:08	1
Dibromofluoromethane (Surr)	104		75 - 131		11/18/23 14:08	1
Toluene-d8 (Surr)	98		80 - 120		11/18/23 14:08	1

Lab Sample ID: LCS 860-131725/3

Matrix: Water

Analysis Batch: 131725

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	48.88		ug/L		98	72 - 125
1,1,1-Trichloroethane	50.0	49.04		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.19		ug/L		98	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.88		ug/L		108	60 - 140
1,1,2-Trichloroethane	50.0	49.80		ug/L		100	70 - 130
1,1-Dichloroethane	50.0	49.85		ug/L		100	70 - 130
1,1-Dichloroethene	50.0	49.84		ug/L		100	50 - 150
1,2,3-Trichloropropane	50.0	45.42		ug/L		91	75 - 125
1,2,4-Trimethylbenzene	50.0	48.63		ug/L		97	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	51.94		ug/L		104	59 - 125
1,2-Dibromoethane	50.0	50.01		ug/L		100	73 - 125
1,2-Dichloroethane	50.0	49.53		ug/L		99	72 - 130
1,2-Dichloropropane	50.0	49.43		ug/L		99	74 - 125
1,3,5-Trimethylbenzene	50.0	48.80		ug/L		98	60 - 140
1,3-Butadiene	50.0	49.78		ug/L		100	60 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131725/3

Matrix: Water

Analysis Batch: 131725

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	49.60		ug/L		99	70 - 130
2-Butanone (MEK)	250	243.9		ug/L		98	60 - 140
2-Hexanone (MBK)	250	230.7		ug/L		92	60 - 140
2-Propanol	500	441.1		ug/L		88	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	43.85		ug/L		88	70 - 130
4-Methyl-2-pentanone	250	235.3		ug/L		94	60 - 140
Acetone	250	230.7		ug/L		92	60 - 140
Acetonitrile	500	440.2		ug/L		88	60 - 140
Acrolein	250	221.9		ug/L		89	60 - 140
Acrylonitrile	500	478.0		ug/L		96	60 - 140
alpha-Chlorotoluene	50.0	46.61		ug/L		93	75 - 125
Benzene	50.0	48.49		ug/L		97	75 - 125
Bromodichloromethane	50.0	48.52		ug/L		97	75 - 125
Bromoform	50.0	47.78		ug/L		96	70 - 130
Bromomethane	50.0	52.09		ug/L		104	60 - 140
Carbon disulfide	50.0	45.12		ug/L		90	60 - 140
Carbon tetrachloride	50.0	47.82		ug/L		96	70 - 130
Chlorobenzene	50.0	49.11		ug/L		98	65 - 135
Chlorodibromomethane	50.0	48.85		ug/L		98	73 - 125
Chloroethane	50.0	46.38		ug/L		93	60 - 140
Chloroform	50.0	50.77		ug/L		102	70 - 121
Chloromethane	50.0	45.34		ug/L		91	60 - 140
Chloroprene	50.0	48.40		ug/L		97	70 - 130
cis-1,2-Dichloroethene	50.0	49.28		ug/L		99	75 - 125
cis-1,3-Dichloropropene	50.0	48.99		ug/L		98	74 - 125
Cumene (isopropylbenzene)	50.0	48.40		ug/L		97	75 - 125
Cyclohexane	50.0	48.40		ug/L		97	70 - 130
Dibromomethane	50.0	51.23		ug/L		102	69 - 127
Dichlorodifluoromethane	50.0	39.89		ug/L		80	50 - 150
Ethyl methacrylate	50.0	47.29		ug/L		95	70 - 130
Ethylbenzene	50.0	48.58		ug/L		97	75 - 125
Hexane	50.0	49.19		ug/L		98	72 - 125
Iodomethane	50.0	54.99		ug/L		110	75 - 125
Isobutanol	1240	1114		ug/L		90	60 - 140
Methacrylonitrile	500	486.9		ug/L		97	70 - 130
Methyl methacrylate	100	96.14		ug/L		96	70 - 130
Methyl tert-butyl ether	50.0	46.60		ug/L		93	65 - 135
Methylene Chloride	50.0	50.46		ug/L		101	71 - 125
Propionitrile	500	484.5		ug/L		97	70 - 130
Propylbenzene	50.0	50.66		ug/L		101	75 - 125
Styrene	50.0	49.11		ug/L		98	75 - 125
Tetrachloroethene	50.0	49.72		ug/L		99	71 - 125
Tetrahydrofuran	100	100.9		ug/L		101	75 - 125
Toluene	50.0	48.48		ug/L		97	70 - 130
trans-1,2-Dichloroethene	50.0	50.54		ug/L		101	75 - 125
trans-1,3-Dichloropropene	50.0	47.26		ug/L		95	66 - 125
trans-1,4-Dichloro-2-butene	50.0	47.21		ug/L		94	70 - 130
Trichloroethene	50.0	51.14		ug/L		102	75 - 135
Trichlorofluoromethane	50.0	55.61		ug/L		111	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131725/3

Matrix: Water

Analysis Batch: 131725

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	241.4		ug/L		97	60 - 140
Vinyl chloride	50.0	49.57		ug/L		99	60 - 140
Xylenes, Total	100	96.25		ug/L		96	75 - 125
m,p-Xylenes	0.0500	0.04817		mg/L		96	75 - 125
o-Xylene	0.0500	0.04808		mg/L		96	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 860-131725/4

Matrix: Water

Analysis Batch: 131725

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	47.86		ug/L		96	72 - 125	2	25
1,1,1-Trichloroethane	50.0	48.09		ug/L		96	70 - 130	2	25
1,1,2,2-Tetrachloroethane	50.0	49.92		ug/L		100	74 - 125	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.45		ug/L		111	60 - 140	3	25
1,1,2-Trichloroethane	50.0	48.79		ug/L		98	70 - 130	2	25
1,1-Dichloroethane	50.0	48.13		ug/L		96	70 - 130	4	25
1,1-Dichloroethene	50.0	48.16		ug/L		96	50 - 150	3	25
1,2,3-Trichloropropane	50.0	48.44		ug/L		97	75 - 125	6	25
1,2,4-Trimethylbenzene	50.0	48.00		ug/L		96	75 - 125	1	25
1,2-Dibromo-3-Chloropropane	50.0	52.99		ug/L		106	59 - 125	2	25
1,2-Dibromoethane	50.0	49.28		ug/L		99	73 - 125	1	25
1,2-Dichloroethane	50.0	48.89		ug/L		98	72 - 130	1	25
1,2-Dichloropropane	50.0	48.90		ug/L		98	74 - 125	1	25
1,3,5-Trimethylbenzene	50.0	48.56		ug/L		97	60 - 140	0	25
1,3-Butadiene	50.0	48.11		ug/L		96	60 - 150	3	25
2,2,4-Trimethylpentane	50.0	48.24		ug/L		96	70 - 130	3	25
2-Butanone (MEK)	250	242.5		ug/L		97	60 - 140	1	25
2-Hexanone (MBK)	250	231.1		ug/L		92	60 - 140	0	25
2-Propanol	500	441.8		ug/L		88	70 - 120	0	25
3-Chloropropene (Allyl Chloride)	50.0	46.52		ug/L		93	70 - 130	6	25
4-Methyl-2-pentanone	250	236.6		ug/L		95	60 - 140	1	25
Acetone	250	225.0		ug/L		90	60 - 140	3	25
Acetonitrile	500	467.0		ug/L		93	60 - 140	6	25
Acrolein	250	220.7		ug/L		88	60 - 140	1	25
Acrylonitrile	500	479.2		ug/L		96	60 - 140	0	25
alpha-Chlorotoluene	50.0	46.31		ug/L		93	75 - 125	1	25
Benzene	50.0	47.58		ug/L		95	75 - 125	2	25
Bromodichloromethane	50.0	48.40		ug/L		97	75 - 125	0	25
Bromoform	50.0	47.31		ug/L		95	70 - 130	1	25
Bromomethane	50.0	50.11		ug/L		100	60 - 140	4	25
Carbon disulfide	50.0	44.27		ug/L		89	60 - 140	2	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131725/4

Matrix: Water

Analysis Batch: 131725

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	46.68		ug/L		93	70 - 130	2	25
Chlorobenzene	50.0	47.98		ug/L		96	65 - 135	2	25
Chlorodibromomethane	50.0	48.04		ug/L		96	73 - 125	2	25
Chloroethane	50.0	44.74		ug/L		89	60 - 140	4	25
Chloroform	50.0	49.71		ug/L		99	70 - 121	2	25
Chloromethane	50.0	43.92		ug/L		88	60 - 140	3	25
Chloroprene	50.0	47.48		ug/L		95	70 - 130	2	25
cis-1,2-Dichloroethene	50.0	47.65		ug/L		95	75 - 125	3	25
cis-1,3-Dichloropropene	50.0	48.79		ug/L		98	74 - 125	0	25
Cumene (isopropylbenzene)	50.0	47.46		ug/L		95	75 - 125	2	25
Cyclohexane	50.0	47.12		ug/L		94	70 - 130	3	25
Dibromomethane	50.0	50.58		ug/L		101	69 - 127	1	25
Dichlorodifluoromethane	50.0	39.03		ug/L		78	50 - 150	2	25
Ethyl methacrylate	50.0	47.12		ug/L		94	70 - 130	0	25
Ethylbenzene	50.0	47.50		ug/L		95	75 - 125	2	25
Hexane	50.0	48.54		ug/L		97	72 - 125	1	25
Iodomethane	50.0	52.93		ug/L		106	75 - 125	4	25
Isobutanol	1240	1147		ug/L		93	60 - 140	3	25
Methacrylonitrile	500	485.0		ug/L		97	70 - 130	0	25
Methyl methacrylate	100	95.45		ug/L		95	70 - 130	1	25
Methyl tert-butyl ether	50.0	46.77		ug/L		94	65 - 135	0	25
Methylene Chloride	50.0	49.21		ug/L		98	71 - 125	3	25
Propionitrile	500	486.2		ug/L		97	70 - 130	0	25
Propylbenzene	50.0	50.18		ug/L		100	75 - 125	1	25
Styrene	50.0	47.98		ug/L		96	75 - 125	2	25
Tetrachloroethene	50.0	49.20		ug/L		98	71 - 125	1	25
Tetrahydrofuran	100	98.06		ug/L		98	75 - 125	3	25
Toluene	50.0	47.47		ug/L		95	70 - 130	2	25
trans-1,2-Dichloroethene	50.0	49.90		ug/L		100	75 - 125	1	25
trans-1,3-Dichloropropene	50.0	46.71		ug/L		93	66 - 125	1	25
trans-1,4-Dichloro-2-butene	50.0	47.24		ug/L		94	70 - 130	0	25
Trichloroethene	50.0	50.39		ug/L		101	75 - 135	1	25
Trichlorofluoromethane	50.0	56.66		ug/L		113	60 - 140	2	25
Vinyl acetate	250	238.1		ug/L		95	60 - 140	1	25
Vinyl chloride	50.0	47.98		ug/L		96	60 - 140	3	25
Xylenes, Total	100	93.48		ug/L		93	75 - 125	3	25
m,p-Xylenes	0.0500	0.04681		mg/L		94	75 - 125	3	25
o-Xylene	0.0500	0.04667		mg/L		93	75 - 125	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
Toluene-d8 (Surr)	97		80 - 120

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61847-3 MS

Matrix: Water

Analysis Batch: 131725

Client Sample ID: MW-30-D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	46.92		ug/L		94	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	45.86		ug/L		92	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	47.48		ug/L		95	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	55.65		ug/L		111	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	47.33		ug/L		95	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	46.57		ug/L		93	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	48.75		ug/L		98	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	44.04		ug/L		88	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	46.64		ug/L		93	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	49.70		ug/L		99	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	47.66		ug/L		95	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	47.57		ug/L		95	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	47.82		ug/L		96	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	46.71		ug/L		93	70 - 125
1,3-Butadiene	<0.568	U	50.0	50.36		ug/L		101	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	46.85		ug/L		94	70 - 130
2-Butanone (MEK)	<8.28	U	250	256.3		ug/L		103	60 - 140
2-Hexanone (MBK)	<7.45	U	250	242.4		ug/L		97	60 - 140
2-Propanol	<5.23	U	500	420.4		ug/L		84	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	45.20		ug/L		90	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	253.5		ug/L		101	60 - 140
Acetone	<3.07	U	250	227.0		ug/L		91	60 - 140
Acetonitrile	<14.6	U	500	453.7		ug/L		91	60 - 140
Acrolein	<11.1	U	250	163.6		ug/L		65	50 - 150
Acrylonitrile	<14.3	U	500	458.1		ug/L		92	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	45.33		ug/L		91	70 - 130
Benzene	3.98		50.0	50.21		ug/L		92	66 - 142
Bromodichloromethane	<0.552	U	50.0	47.91		ug/L		96	75 - 125
Bromoform	<0.633	U	50.0	46.63		ug/L		93	75 - 125
Bromomethane	<1.42	U	50.0	50.15		ug/L		100	60 - 140
Carbon disulfide	<1.65	U	50.0	47.30		ug/L		95	60 - 140
Chlorobenzene	3.94		50.0	51.26		ug/L		95	60 - 133
Chlorodibromomethane	<0.547	U	50.0	47.11		ug/L		94	73 - 125
Chloroethane	<1.98	U	50.0	45.18		ug/L		90	60 - 140
Chloroform	23.1		50.0	70.16		ug/L		94	70 - 130
Chloromethane	<2.04	U	50.0	48.66		ug/L		97	60 - 140
Chloroprene	<0.598	U	50.0	45.59		ug/L		91	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	46.87		ug/L		94	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	47.64		ug/L		95	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	46.35		ug/L		93	75 - 125
Cyclohexane	<1.29	U	50.0	44.96		ug/L		90	70 - 130
Dibromomethane	<0.357	U	50.0	49.61		ug/L		99	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	56.45		ug/L		113	70 - 130
Ethyl methacrylate	<1.12	U	50.0	44.98		ug/L		90	70 - 130
Ethylbenzene	<0.385	U	50.0	46.50		ug/L		93	75 - 125
Hexane	<0.517	U	50.0	48.60		ug/L		97	72 - 125
Iodomethane	<6.52	U	50.0	53.46		ug/L		107	75 - 125
Isobutanol	<17.1	U	1240	1107		ug/L		89	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61847-3 MS

Matrix: Water

Analysis Batch: 131725

Client Sample ID: MW-30-D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Methacrylonitrile	<2.72	U	500	458.3		ug/L		92	70 - 130
Methyl methacrylate	<2.25	U	100	92.15		ug/L		92	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	44.99		ug/L		90	65 - 135
Methylene Chloride	<1.73	U	50.0	47.87		ug/L		96	75 - 125
Propionitrile	<3.34	U	500	448.2		ug/L		90	70 - 130
Propylbenzene	<0.429	U	50.0	47.07		ug/L		94	75 - 125
Styrene	<0.619	U	50.0	46.78		ug/L		94	75 - 125
Tetrachloroethene	<0.655	U	50.0	47.48		ug/L		95	71 - 125
Tetrahydrofuran	<1.83	U	100	95.15		ug/L		95	75 - 125
Toluene	<0.475	U	50.0	46.74		ug/L		93	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	49.16		ug/L		98	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	45.89		ug/L		92	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	46.40		ug/L		93	70 - 130
Trichloroethene	<1.50	U	50.0	49.24		ug/L		98	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	49.20		ug/L		98	60 - 140
Vinyl acetate	<2.14	U	250	258.4		ug/L		103	60 - 140
Vinyl chloride	<0.428	U	50.0	50.37		ug/L		101	60 - 140
Xylenes, Total	<1.24	U	100	91.62		ug/L		92	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.04585		mg/L		92	75 - 125
o-Xylene	<0.000502	U	0.0500	0.04577		mg/L		92	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: MB 860-131746/10

Matrix: Water

Analysis Batch: 131746

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/19/23 04:07	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/19/23 04:07	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/19/23 04:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/19/23 04:07	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/19/23 04:07	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/19/23 04:07	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/19/23 04:07	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/19/23 04:07	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/19/23 04:07	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/19/23 04:07	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/19/23 04:07	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/19/23 04:07	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/19/23 04:07	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/19/23 04:07	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/19/23 04:07	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/19/23 04:07	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131746/10

Matrix: Water

Analysis Batch: 131746

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/19/23 04:07	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/19/23 04:07	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/19/23 04:07	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/19/23 04:07	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/19/23 04:07	1
Acetone	<3.07	U	100	3.07	ug/L			11/19/23 04:07	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/19/23 04:07	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/19/23 04:07	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/19/23 04:07	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/19/23 04:07	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/19/23 04:07	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/19/23 04:07	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/19/23 04:07	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/19/23 04:07	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/19/23 04:07	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/19/23 04:07	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/19/23 04:07	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/19/23 04:07	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/19/23 04:07	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/19/23 04:07	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/19/23 04:07	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/19/23 04:07	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/19/23 04:07	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/19/23 04:07	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/19/23 04:07	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/19/23 04:07	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/19/23 04:07	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/19/23 04:07	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/19/23 04:07	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/19/23 04:07	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/19/23 04:07	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/19/23 04:07	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/19/23 04:07	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/19/23 04:07	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/19/23 04:07	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/19/23 04:07	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/19/23 04:07	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/19/23 04:07	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/19/23 04:07	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/19/23 04:07	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/19/23 04:07	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/19/23 04:07	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/19/23 04:07	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/19/23 04:07	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/19/23 04:07	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/19/23 04:07	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/19/23 04:07	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/19/23 04:07	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/19/23 04:07	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131746/10

Matrix: Water

Analysis Batch: 131746

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/19/23 04:07	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/19/23 04:07	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/19/23 04:07	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/19/23 04:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		11/19/23 04:07	1
4-Bromofluorobenzene (Surr)	110		74 - 124		11/19/23 04:07	1
Dibromofluoromethane (Surr)	109		75 - 131		11/19/23 04:07	1
Toluene-d8 (Surr)	105		80 - 120		11/19/23 04:07	1

Lab Sample ID: LCS 860-131746/3

Matrix: Water

Analysis Batch: 131746

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	49.67		ug/L		99	72 - 125
1,1,1-Trichloroethane	50.0	50.36		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.41		ug/L		101	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	38.01		ug/L		76	60 - 140
1,1,2-Trichloroethane	50.0	50.85		ug/L		102	70 - 130
1,1-Dichloroethane	50.0	55.98		ug/L		112	70 - 130
1,1-Dichloroethene	50.0	45.83		ug/L		92	50 - 150
1,2,3-Trichloropropane	50.0	50.16		ug/L		100	75 - 125
1,2,4-Trimethylbenzene	50.0	54.66		ug/L		109	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	40.94		ug/L		82	59 - 125
1,2-Dibromoethane	50.0	50.43		ug/L		101	73 - 125
1,2-Dichloroethane	50.0	52.32		ug/L		105	72 - 130
1,2-Dichloropropane	50.0	55.36		ug/L		111	74 - 125
1,3,5-Trimethylbenzene	50.0	52.66		ug/L		105	60 - 140
1,3-Butadiene	50.0	44.56		ug/L		89	60 - 150
2,2,4-Trimethylpentane	50.0	50.23		ug/L		100	70 - 130
2-Butanone (MEK)	250	271.0		ug/L		108	60 - 140
2-Hexanone (MBK)	250	251.1		ug/L		100	60 - 140
3-Chloropropene (Allyl Chloride)	50.0	45.62		ug/L		91	70 - 130
4-Methyl-2-pentanone	250	258.8		ug/L		104	60 - 140
Acetone	250	271.0		ug/L		108	60 - 140
Acetonitrile	500	605.2		ug/L		121	60 - 140
Acrolein	250	221.3		ug/L		89	60 - 140
Acrylonitrile	500	549.1		ug/L		110	60 - 140
Benzene	50.0	50.53		ug/L		101	75 - 125
Bromodichloromethane	50.0	54.05		ug/L		108	75 - 125
Bromoform	50.0	38.54		ug/L		77	70 - 130
Bromomethane	50.0	32.89		ug/L		66	60 - 140
Carbon disulfide	50.0	41.94		ug/L		84	60 - 140
Carbon tetrachloride	50.0	46.79		ug/L		94	70 - 130
Chlorobenzene	50.0	48.81		ug/L		98	65 - 135
Chlorodibromomethane	50.0	49.65		ug/L		99	73 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131746/3

Matrix: Water

Analysis Batch: 131746

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	50.0	44.32		ug/L		89	60 - 140
Chloroform	50.0	54.45		ug/L		109	70 - 121
Chloromethane	50.0	46.57		ug/L		93	60 - 140
Chloroprene	50.0	51.75		ug/L		103	70 - 130
cis-1,2-Dichloroethene	50.0	55.57		ug/L		111	75 - 125
cis-1,3-Dichloropropene	50.0	54.27		ug/L		109	74 - 125
Cumene (isopropylbenzene)	50.0	48.93		ug/L		98	75 - 125
Cyclohexane	50.0	43.33		ug/L		87	70 - 130
Dibromomethane	50.0	52.81		ug/L		106	69 - 127
Dichlorodifluoromethane	50.0	36.91		ug/L		74	50 - 150
Ethyl methacrylate	50.0	53.29		ug/L		107	70 - 130
Ethylbenzene	50.0	49.95		ug/L		100	75 - 125
Hexane	50.0	42.84		ug/L		86	72 - 125
Iodomethane	50.0	42.28		ug/L		85	75 - 125
Isobutanol	1240	1449		ug/L		117	60 - 140
Methacrylonitrile	500	540.3		ug/L		108	70 - 130
Methyl methacrylate	100	108.4		ug/L		108	70 - 130
Methyl tert-butyl ether	50.0	55.80		ug/L		112	65 - 135
Methylene Chloride	50.0	50.60		ug/L		101	71 - 125
Propionitrile	500	558.3		ug/L		112	70 - 130
Propylbenzene	50.0	52.10		ug/L		104	75 - 125
Styrene	50.0	50.24		ug/L		100	75 - 125
Tetrachloroethene	50.0	46.61		ug/L		93	71 - 125
Toluene	50.0	48.75		ug/L		98	70 - 130
trans-1,2-Dichloroethene	50.0	49.85		ug/L		100	75 - 125
trans-1,3-Dichloropropene	50.0	51.98		ug/L		104	66 - 125
trans-1,4-Dichloro-2-butene	50.0	49.67		ug/L		99	70 - 130
Trichloroethene	50.0	49.04		ug/L		98	75 - 135
Trichlorofluoromethane	50.0	48.31		ug/L		97	60 - 140
Vinyl acetate	250	292.9		ug/L		117	60 - 140
Vinyl chloride	50.0	47.25		ug/L		94	60 - 140
Xylenes, Total	100	100.8		ug/L		101	75 - 125
m,p-Xylenes	0.0500	0.04972		mg/L		99	75 - 125
o-Xylene	0.0500	0.05109		mg/L		102	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		63 - 144
4-Bromofluorobenzene (Surr)	111		74 - 124
Dibromofluoromethane (Surr)	107		75 - 131
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LCSD 860-131746/4

Matrix: Water

Analysis Batch: 131746

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	45.61		ug/L		91	72 - 125	9	25
1,1,1-Trichloroethane	50.0	50.93		ug/L		102	70 - 130	1	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131746/4

Matrix: Water

Analysis Batch: 131746

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	50.0	48.19		ug/L		96	74 - 125	5	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.03		ug/L		86	60 - 140	12	25
1,1,2-Trichloroethane	50.0	49.78		ug/L		100	70 - 130	2	25
1,1-Dichloroethane	50.0	53.30		ug/L		107	70 - 130	5	25
1,1-Dichloroethene	50.0	45.35		ug/L		91	50 - 150	1	25
1,2,3-Trichloropropane	50.0	48.42		ug/L		97	75 - 125	4	25
1,2,4-Trimethylbenzene	50.0	51.17		ug/L		102	75 - 125	7	25
1,2-Dibromo-3-Chloropropane	50.0	39.46		ug/L		79	59 - 125	4	25
1,2-Dibromoethane	50.0	48.56		ug/L		97	73 - 125	4	25
1,2-Dichloroethane	50.0	51.58		ug/L		103	72 - 130	1	25
1,2-Dichloropropane	50.0	52.04		ug/L		104	74 - 125	6	25
1,3,5-Trimethylbenzene	50.0	51.38		ug/L		103	60 - 140	2	25
1,3-Butadiene	50.0	43.83		ug/L		88	60 - 150	2	25
2,2,4-Trimethylpentane	50.0	51.48		ug/L		103	70 - 130	2	25
2-Butanone (MEK)	250	256.9		ug/L		103	60 - 140	5	25
2-Hexanone (MBK)	250	249.8		ug/L		100	60 - 140	1	25
3-Chloropropene (Allyl Chloride)	50.0	41.64		ug/L		83	70 - 130	9	25
4-Methyl-2-pentanone	250	251.5		ug/L		101	60 - 140	3	25
Acetone	250	261.6		ug/L		105	60 - 140	4	25
Acetonitrile	500	599.9		ug/L		120	60 - 140	1	25
Acrolein	250	209.6		ug/L		84	60 - 140	5	25
Acrylonitrile	500	533.8		ug/L		107	60 - 140	3	25
Benzene	50.0	49.97		ug/L		100	75 - 125	1	25
Bromodichloromethane	50.0	51.60		ug/L		103	75 - 125	5	25
Bromoform	50.0	38.31		ug/L		77	70 - 130	1	25
Carbon disulfide	50.0	41.81		ug/L		84	60 - 140	0	25
Carbon tetrachloride	50.0	46.76		ug/L		94	70 - 130	0	25
Chlorobenzene	50.0	45.15		ug/L		90	65 - 135	8	25
Chlorodibromomethane	50.0	48.02		ug/L		96	73 - 125	3	25
Chloroethane	50.0	43.52		ug/L		87	60 - 140	2	25
Chloroform	50.0	51.55		ug/L		103	70 - 121	5	25
Chloromethane	50.0	44.30		ug/L		89	60 - 140	5	25
Chloroprene	50.0	51.75		ug/L		103	70 - 130	0	25
cis-1,2-Dichloroethene	50.0	52.39		ug/L		105	75 - 125	6	25
cis-1,3-Dichloropropene	50.0	51.21		ug/L		102	74 - 125	6	25
Cumene (isopropylbenzene)	50.0	48.34		ug/L		97	75 - 125	1	25
Cyclohexane	50.0	44.57		ug/L		89	70 - 130	3	25
Dibromomethane	50.0	50.68		ug/L		101	69 - 127	4	25
Dichlorodifluoromethane	50.0	40.66		ug/L		81	50 - 150	10	25
Ethyl methacrylate	50.0	51.84		ug/L		104	70 - 130	3	25
Ethylbenzene	50.0	47.43		ug/L		95	75 - 125	5	25
Hexane	50.0	44.35		ug/L		89	72 - 125	3	25
Iodomethane	50.0	39.92		ug/L		80	75 - 125	6	25
Isobutanol	1240	1489		ug/L		120	60 - 140	3	25
Methacrylonitrile	500	507.4		ug/L		101	70 - 130	6	25
Methyl methacrylate	100	106.1		ug/L		106	70 - 130	2	25
Methyl tert-butyl ether	50.0	54.52		ug/L		109	65 - 135	2	25
Methylene Chloride	50.0	49.53		ug/L		99	71 - 125	2	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131746/4

Matrix: Water

Analysis Batch: 131746

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Propionitrile	500	534.4		ug/L		107	70 - 130	4	25
Propylbenzene	50.0	50.17		ug/L		100	75 - 125	4	25
Styrene	50.0	48.15		ug/L		96	75 - 125	4	25
Tetrachloroethene	50.0	44.95		ug/L		90	71 - 125	4	25
Toluene	50.0	47.84		ug/L		96	70 - 130	2	25
trans-1,2-Dichloroethene	50.0	49.15		ug/L		98	75 - 125	1	25
trans-1,3-Dichloropropene	50.0	50.16		ug/L		100	66 - 125	4	25
trans-1,4-Dichloro-2-butene	50.0	47.52		ug/L		95	70 - 130	4	25
Trichloroethene	50.0	47.77		ug/L		96	75 - 135	3	25
Trichlorofluoromethane	50.0	50.60		ug/L		101	60 - 140	5	25
Vinyl acetate	250	276.7		ug/L		111	60 - 140	6	25
Vinyl chloride	50.0	47.40		ug/L		95	60 - 140	0	25
Xylenes, Total	100	94.36		ug/L		94	75 - 125	7	25
m,p-Xylenes	0.0500	0.04649		mg/L		93	75 - 125	7	25
o-Xylene	0.0500	0.04787		mg/L		96	75 - 125	7	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		63 - 144
4-Bromofluorobenzene (Surr)	114		74 - 124
Dibromofluoromethane (Surr)	103		75 - 131
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: 400-246535-A-9 MS

Matrix: Water

Analysis Batch: 131746

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<6.44	U	500	368.0		ug/L		74	72 - 125
1,1,1-Trichloroethane	<5.85	U	500	408.1		ug/L		82	75 - 125
1,1,2,2-Tetrachloroethane	<4.70	U	500	387.4		ug/L		77	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<11.1	U	500	345.1		ug/L		69	60 - 140
1,1,2-Trichloroethane	<4.11	U	500	380.0		ug/L		76	75 - 127
1,1-Dichloroethane	<6.35	U	500	418.3		ug/L		84	72 - 125
1,1-Dichloroethene	<7.38	U	500	423.8		ug/L		85	59 - 172
1,2,3-Trichloropropane	<4.70	U	500	384.9		ug/L		77	75 - 125
1,2,4-Trimethylbenzene	169		500	586.9		ug/L		84	75 - 125
1,2-Dibromo-3-Chloropropane	<6.71	U	500	302.8		ug/L		61	59 - 125
1,2-Dibromoethane	<9.99	U	500	380.7		ug/L		76	73 - 125
1,2-Dichloroethane	<3.72	U	500	382.4		ug/L		76	68 - 127
1,2-Dichloropropane	<5.56	U	500	401.5		ug/L		80	74 - 125
1,3,5-Trimethylbenzene	86.2		500	502.5		ug/L		83	70 - 125
1,3-Butadiene	<5.68	U	500	398.0		ug/L		80	70 - 150
2,2,4-Trimethylpentane	<5.00	U	500	392.8		ug/L		79	70 - 130
2-Butanone (MEK)	<82.8	U	2500	1929		ug/L		77	60 - 140
2-Hexanone (MBK)	<74.5	U	2500	1862		ug/L		74	60 - 140
2-Propanol	<52.3	U *+	5000	4886		ug/L		98	70 - 120
3-Chloropropene (Allyl Chloride)	<5.97	U	500	437.7		ug/L		88	70 - 130
4-Methyl-2-pentanone	<74.9	U	2500	1911		ug/L		76	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-246535-A-9 MS

Matrix: Water

Analysis Batch: 131746

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	<30.7	U	2500	1897		ug/L		76	60 - 140
Acetonitrile	<146	U	5000	4531		ug/L		91	60 - 140
Acrylonitrile	<143	U	5000	3955		ug/L		79	50 - 150
Benzene	45.9		500	435.6		ug/L		78	66 - 142
Bromodichloromethane	<5.52	U	500	390.0		ug/L		78	75 - 125
Carbon disulfide	<16.5	U	500	413.6		ug/L		83	60 - 140
Carbon tetrachloride	<8.96	U	500	391.2		ug/L		78	62 - 125
Chlorobenzene	<4.55	U	500	366.7		ug/L		73	60 - 133
Chlorodibromomethane	<5.47	U	500	368.1		ug/L		74	73 - 125
Chloroethane	<19.8	U	500	422.9		ug/L		85	60 - 140
Chloroform	<4.64	U	500	417.1		ug/L		83	70 - 130
Chloromethane	<20.4	U	500	444.9		ug/L		89	60 - 140
Chloroprene	<5.98	U	500	424.4		ug/L		85	70 - 130
cis-1,2-Dichloroethene	<4.57	U	500	425.0		ug/L		85	75 - 125
cis-1,3-Dichloropropene	<10.7	U	500	391.3		ug/L		78	74 - 125
Cumene (isopropylbenzene)	56.8		500	463.8		ug/L		81	75 - 125
Cyclohexane	32.2	J	500	394.2		ug/L		72	70 - 130
Dibromomethane	<3.57	U	500	374.5		ug/L		75	69 - 127
Ethyl methacrylate	<11.2	U	500	395.5		ug/L		79	70 - 130
Ethylbenzene	174		500	554.6		ug/L		76	75 - 125
Iodomethane	<65.2	U	500	402.6		ug/L		81	75 - 125
Isobutanol	<171	U	12400	10840		ug/L		87	60 - 140
Methacrylonitrile	<27.2	U	5000	3927		ug/L		79	70 - 130
Methyl methacrylate	<22.5	U	1000	798.4		ug/L		80	70 - 130
Methyl tert-butyl ether	<13.9	U	500	424.7		ug/L		85	65 - 135
Methylene Chloride	<17.3	U	500	398.0		ug/L		80	75 - 125
Propionitrile	<33.4	U	5000	3977		ug/L		80	70 - 130
Propylbenzene	222		500	619.0		ug/L		79	75 - 125
Styrene	<6.19	U	500	388.8		ug/L		78	75 - 125
Tetrachloroethene	<6.55	U	500	368.1		ug/L		74	71 - 125
Tetrahydrofuran	<18.3	U *+	1000	1072		ug/L		107	75 - 125
Toluene	<4.75	U	500	395.4		ug/L		79	59 - 139
trans-1,2-Dichloroethene	<3.68	U	500	422.8		ug/L		85	75 - 125
trans-1,3-Dichloropropene	<12.7	U	500	391.0		ug/L		78	66 - 125
trans-1,4-Dichloro-2-butene	<13.5	U	500	372.7		ug/L		75	70 - 130
Trichloroethene	<15.0	U	500	378.8		ug/L		76	62 - 137
Trichlorofluoromethane	<5.60	U	500	516.8		ug/L		103	60 - 140
Vinyl acetate	<21.4	U	2500	2422		ug/L		97	60 - 140
Vinyl chloride	<4.28	U	500	479.0		ug/L		96	60 - 140
Xylenes, Total	399		1000	1160		ug/L		76	75 - 125
o-Xylene	<0.00502	U	0.500	0.3954		mg/L		79	75 - 125
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	102		63 - 144						
4-Bromofluorobenzene (Surr)	109		74 - 124						
Dibromofluoromethane (Surr)	106		75 - 131						
Toluene-d8 (Surr)	104		80 - 120						

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131898/9

Matrix: Water

Analysis Batch: 131898

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/20/23 15:13	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/20/23 15:13	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/20/23 15:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/20/23 15:13	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/20/23 15:13	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/20/23 15:13	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/20/23 15:13	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/20/23 15:13	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/20/23 15:13	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/20/23 15:13	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/20/23 15:13	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/20/23 15:13	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/20/23 15:13	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/20/23 15:13	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/20/23 15:13	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/20/23 15:13	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/20/23 15:13	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/20/23 15:13	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/20/23 15:13	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/20/23 15:13	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/20/23 15:13	1
Acetone	<3.07	U	100	3.07	ug/L			11/20/23 15:13	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/20/23 15:13	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/20/23 15:13	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/20/23 15:13	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/20/23 15:13	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/20/23 15:13	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/20/23 15:13	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/20/23 15:13	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/20/23 15:13	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/20/23 15:13	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/20/23 15:13	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/20/23 15:13	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/20/23 15:13	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/20/23 15:13	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/20/23 15:13	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/20/23 15:13	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/20/23 15:13	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/20/23 15:13	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/20/23 15:13	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/20/23 15:13	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/20/23 15:13	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/20/23 15:13	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/20/23 15:13	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/20/23 15:13	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/20/23 15:13	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/20/23 15:13	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/20/23 15:13	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-131898/9

Matrix: Water

Analysis Batch: 131898

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/20/23 15:13	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/20/23 15:13	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/20/23 15:13	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/20/23 15:13	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/20/23 15:13	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/20/23 15:13	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/20/23 15:13	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/20/23 15:13	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/20/23 15:13	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/20/23 15:13	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/20/23 15:13	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/20/23 15:13	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/20/23 15:13	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/20/23 15:13	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/20/23 15:13	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/20/23 15:13	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/20/23 15:13	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/20/23 15:13	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/20/23 15:13	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/20/23 15:13	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/20/23 15:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		11/20/23 15:13	1
4-Bromofluorobenzene (Surr)	100		74 - 124		11/20/23 15:13	1
Dibromofluoromethane (Surr)	105		75 - 131		11/20/23 15:13	1
Toluene-d8 (Surr)	98		80 - 120		11/20/23 15:13	1

Lab Sample ID: LCS 860-131898/3

Matrix: Water

Analysis Batch: 131898

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	46.61		ug/L		93	72 - 125
1,1,1-Trichloroethane	50.0	44.42		ug/L		89	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.44		ug/L		101	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.70		ug/L		99	60 - 140
1,1,2-Trichloroethane	50.0	49.39		ug/L		99	70 - 130
1,1-Dichloroethane	50.0	47.06		ug/L		94	70 - 130
1,1-Dichloroethene	50.0	44.79		ug/L		90	50 - 150
1,2,3-Trichloropropane	50.0	47.97		ug/L		96	75 - 125
1,2,4-Trimethylbenzene	50.0	44.65		ug/L		89	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	55.66		ug/L		111	59 - 125
1,2-Dibromoethane	50.0	50.17		ug/L		100	73 - 125
1,2-Dichloroethane	50.0	49.62		ug/L		99	72 - 130
1,2-Dichloropropane	50.0	47.29		ug/L		95	74 - 125
1,3,5-Trimethylbenzene	50.0	44.71		ug/L		89	60 - 140
1,3-Butadiene	50.0	45.53		ug/L		91	60 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131898/3

Matrix: Water

Analysis Batch: 131898

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	43.53		ug/L		87	70 - 130
2-Butanone (MEK)	250	275.1		ug/L		110	60 - 140
2-Hexanone (MBK)	250	254.0		ug/L		102	60 - 140
2-Propanol	500	507.9		ug/L		102	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	48.68		ug/L		97	70 - 130
4-Methyl-2-pentanone	250	255.6		ug/L		102	60 - 140
Acetone	250	255.8		ug/L		102	60 - 140
Acetonitrile	500	488.7		ug/L		98	60 - 140
Acrolein	250	248.4		ug/L		99	60 - 140
Acrylonitrile	500	524.8		ug/L		105	60 - 140
alpha-Chlorotoluene	50.0	46.16		ug/L		92	75 - 125
Benzene	50.0	45.11		ug/L		90	75 - 125
Bromodichloromethane	50.0	47.76		ug/L		96	75 - 125
Bromoform	50.0	48.26		ug/L		97	70 - 130
Bromomethane	50.0	51.26		ug/L		103	60 - 140
Carbon disulfide	50.0	41.41		ug/L		83	60 - 140
Carbon tetrachloride	50.0	43.14		ug/L		86	70 - 130
Chlorobenzene	50.0	45.49		ug/L		91	65 - 135
Chlorodibromomethane	50.0	48.19		ug/L		96	73 - 125
Chloroethane	50.0	42.26		ug/L		85	60 - 140
Chloroform	50.0	48.40		ug/L		97	70 - 121
Chloromethane	50.0	44.69		ug/L		89	60 - 140
Chloroprene	50.0	44.36		ug/L		89	70 - 130
cis-1,2-Dichloroethene	50.0	47.01		ug/L		94	75 - 125
cis-1,3-Dichloropropene	50.0	47.06		ug/L		94	74 - 125
Cumene (isopropylbenzene)	50.0	43.56		ug/L		87	75 - 125
Cyclohexane	50.0	42.08		ug/L		84	70 - 130
Dibromomethane	50.0	51.20		ug/L		102	69 - 127
Dichlorodifluoromethane	50.0	36.38		ug/L		73	50 - 150
Ethyl methacrylate	50.0	48.28		ug/L		97	70 - 130
Ethylbenzene	50.0	44.22		ug/L		88	75 - 125
Hexane	50.0	43.33		ug/L		87	72 - 125
Iodomethane	50.0	51.78		ug/L		104	75 - 125
Isobutanol	1240	1292		ug/L		104	60 - 140
Methacrylonitrile	500	517.7		ug/L		104	70 - 130
Methyl methacrylate	100	99.14		ug/L		99	70 - 130
Methyl tert-butyl ether	50.0	48.90		ug/L		98	65 - 135
Methylene Chloride	50.0	48.39		ug/L		97	71 - 125
Propionitrile	500	533.2		ug/L		107	70 - 130
Propylbenzene	50.0	44.87		ug/L		90	75 - 125
Styrene	50.0	45.20		ug/L		90	75 - 125
Tetrachloroethene	50.0	44.42		ug/L		89	71 - 125
Tetrahydrofuran	100	106.1		ug/L		106	75 - 125
Toluene	50.0	44.38		ug/L		89	70 - 130
trans-1,2-Dichloroethene	50.0	47.23		ug/L		94	75 - 125
trans-1,3-Dichloropropene	50.0	46.45		ug/L		93	66 - 125
trans-1,4-Dichloro-2-butene	50.0	51.38		ug/L		103	70 - 130
Trichloroethene	50.0	46.14		ug/L		92	75 - 135
Trichlorofluoromethane	50.0	48.80		ug/L		98	60 - 140

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-131898/3

Matrix: Water

Analysis Batch: 131898

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	249.0		ug/L		100	60 - 140
Vinyl chloride	50.0	46.75		ug/L		94	60 - 140
Xylenes, Total	100	87.78		ug/L		88	75 - 125
m,p-Xylenes	0.0500	0.04374		mg/L		87	75 - 125
o-Xylene	0.0500	0.04404		mg/L		88	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	105		75 - 131
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 860-131898/4

Matrix: Water

Analysis Batch: 131898

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	46.25		ug/L		92	72 - 125	1	25
1,1,1-Trichloroethane	50.0	43.98		ug/L		88	70 - 130	1	25
1,1,2,2-Tetrachloroethane	50.0	50.36		ug/L		101	74 - 125	0	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.66		ug/L		89	60 - 140	11	25
1,1,2-Trichloroethane	50.0	48.48		ug/L		97	70 - 130	2	25
1,1-Dichloroethane	50.0	46.02		ug/L		92	70 - 130	2	25
1,1-Dichloroethene	50.0	41.79		ug/L		84	50 - 150	7	25
1,2,3-Trichloropropane	50.0	49.02		ug/L		98	75 - 125	2	25
1,2,4-Trimethylbenzene	50.0	44.68		ug/L		89	75 - 125	0	25
1,2-Dibromo-3-Chloropropane	50.0	54.78		ug/L		110	59 - 125	2	25
1,2-Dibromoethane	50.0	49.66		ug/L		99	73 - 125	1	25
1,2-Dichloroethane	50.0	48.90		ug/L		98	72 - 130	1	25
1,2-Dichloropropane	50.0	47.56		ug/L		95	74 - 125	1	25
1,3,5-Trimethylbenzene	50.0	44.73		ug/L		89	60 - 140	0	25
1,3-Butadiene	50.0	43.90		ug/L		88	60 - 150	4	25
2,2,4-Trimethylpentane	50.0	40.57		ug/L		81	70 - 130	7	25
2-Butanone (MEK)	250	259.7		ug/L		104	60 - 140	6	25
2-Hexanone (MBK)	250	244.3		ug/L		98	60 - 140	4	25
2-Propanol	500	465.6		ug/L		93	70 - 120	9	25
3-Chloropropene (Allyl Chloride)	50.0	43.87		ug/L		88	70 - 130	10	25
4-Methyl-2-pentanone	250	248.3		ug/L		99	60 - 140	3	25
Acetone	250	236.9		ug/L		95	60 - 140	8	25
Acetonitrile	500	440.4		ug/L		88	60 - 140	10	25
Acrolein	250	227.6		ug/L		91	60 - 140	9	25
Acrylonitrile	500	503.2		ug/L		101	60 - 140	4	25
alpha-Chlorotoluene	50.0	44.79		ug/L		90	75 - 125	3	25
Benzene	50.0	45.33		ug/L		91	75 - 125	0	25
Bromodichloromethane	50.0	47.69		ug/L		95	75 - 125	0	25
Bromoform	50.0	47.56		ug/L		95	70 - 130	1	25
Bromomethane	50.0	50.77		ug/L		102	60 - 140	1	25
Carbon disulfide	50.0	38.19		ug/L		76	60 - 140	8	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-131898/4

Matrix: Water

Analysis Batch: 131898

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	41.61		ug/L		83	70 - 130	4	25
Chlorobenzene	50.0	45.42		ug/L		91	65 - 135	0	25
Chlorodibromomethane	50.0	47.56		ug/L		95	73 - 125	1	25
Chloroethane	50.0	43.30		ug/L		87	60 - 140	2	25
Chloroform	50.0	47.56		ug/L		95	70 - 121	2	25
Chloromethane	50.0	44.14		ug/L		88	60 - 140	1	25
Chloroprene	50.0	42.75		ug/L		86	70 - 130	4	25
cis-1,2-Dichloroethene	50.0	46.09		ug/L		92	75 - 125	2	25
cis-1,3-Dichloropropene	50.0	47.41		ug/L		95	74 - 125	1	25
Cumene (isopropylbenzene)	50.0	43.26		ug/L		87	75 - 125	1	25
Cyclohexane	50.0	39.08		ug/L		78	70 - 130	7	25
Dibromomethane	50.0	50.51		ug/L		101	69 - 127	1	25
Dichlorodifluoromethane	50.0	36.13		ug/L		72	50 - 150	1	25
Ethyl methacrylate	50.0	47.44		ug/L		95	70 - 130	2	25
Ethylbenzene	50.0	44.16		ug/L		88	75 - 125	0	25
Hexane	50.0	38.21		ug/L		76	72 - 125	13	25
Iodomethane	50.0	51.91		ug/L		104	75 - 125	0	25
Isobutanol	1240	1215		ug/L		98	60 - 140	6	25
Methacrylonitrile	500	496.6		ug/L		99	70 - 130	4	25
Methyl methacrylate	100	97.59		ug/L		98	70 - 130	2	25
Methyl tert-butyl ether	50.0	47.15		ug/L		94	65 - 135	4	25
Methylene Chloride	50.0	47.27		ug/L		95	71 - 125	2	25
Propionitrile	500	503.8		ug/L		101	70 - 130	6	25
Propylbenzene	50.0	44.47		ug/L		89	75 - 125	1	25
Styrene	50.0	45.82		ug/L		92	75 - 125	1	25
Tetrachloroethene	50.0	43.60		ug/L		87	71 - 125	2	25
Tetrahydrofuran	100	101.3		ug/L		101	75 - 125	5	25
Toluene	50.0	44.80		ug/L		90	70 - 130	1	25
trans-1,2-Dichloroethene	50.0	45.50		ug/L		91	75 - 125	4	25
trans-1,3-Dichloropropene	50.0	46.08		ug/L		92	66 - 125	1	25
trans-1,4-Dichloro-2-butene	50.0	49.38		ug/L		99	70 - 130	4	25
Trichloroethene	50.0	46.04		ug/L		92	75 - 135	0	25
Trichlorofluoromethane	50.0	49.00		ug/L		98	60 - 140	0	25
Vinyl acetate	250	241.3		ug/L		97	60 - 140	3	25
Vinyl chloride	50.0	45.34		ug/L		91	60 - 140	3	25
Xylenes, Total	100	87.94		ug/L		88	75 - 125	0	25
m,p-Xylenes	0.0500	0.04365		mg/L		87	75 - 125	0	25
o-Xylene	0.0500	0.04429		mg/L		89	75 - 125	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	99		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61847-5 MS

Matrix: Water

Analysis Batch: 131898

Client Sample ID: MW-29-S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<32.2	U	2500	2472		ug/L		99	72 - 125
1,1,1-Trichloroethane	<29.3	U	2500	2515		ug/L		101	75 - 125
1,1,2,2-Tetrachloroethane	<23.5	U	2500	2548		ug/L		102	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<55.5	U	2500	2854		ug/L		114	60 - 140
1,1,2-Trichloroethane	<20.6	U	2500	2532		ug/L		101	75 - 127
1,1-Dichloroethane	<31.8	U	2500	2471		ug/L		99	72 - 125
1,1-Dichloroethene	<36.9	U	2500	2517		ug/L		101	59 - 172
1,2,3-Trichloropropane	<23.5	U	2500	2388		ug/L		96	75 - 125
1,2,4-Trimethylbenzene	<20.9	U	2500	2473		ug/L		99	75 - 125
1,2-Dibromo-3-Chloropropane	<33.6	U	2500	2721		ug/L		109	59 - 125
1,2-Dibromoethane	<50.0	U	2500	2551		ug/L		102	73 - 125
1,2-Dichloroethane	<18.6	U	2500	2574		ug/L		103	68 - 127
1,2-Dichloropropane	<27.8	U	2500	2550		ug/L		102	74 - 125
1,3,5-Trimethylbenzene	<20.6	U	2500	2499		ug/L		100	70 - 125
1,3-Butadiene	<28.4	U	2500	2098		ug/L		84	70 - 150
2,2,4-Trimethylpentane	<25.0	U	2500	2439		ug/L		98	70 - 130
2-Butanone (MEK)	<414	U	12500	12960		ug/L		104	60 - 140
2-Hexanone (MBK)	<372	U	12500	12140		ug/L		97	60 - 140
2-Propanol	<261	U	25000	23630		ug/L		95	70 - 120
3-Chloropropene (Allyl Chloride)	<29.9	U	2500	2363		ug/L		95	70 - 130
4-Methyl-2-pentanone	<375	U	12500	12500		ug/L		100	60 - 140
Acetone	<153	U	12500	11690		ug/L		94	60 - 140
Acetonitrile	<730	U	25000	23720		ug/L		95	60 - 140
Acrolein	<556	U	12500	12530		ug/L		100	50 - 150
Acrylonitrile	<716	U	25000	25650		ug/L		103	50 - 150
alpha-Chlorotoluene	<113	U	2500	2425		ug/L		97	70 - 130
Benzene	<23.0	U	2500	2486		ug/L		99	66 - 142
Bromodichloromethane	<27.6	U	2500	2545		ug/L		102	75 - 125
Bromoform	<31.7	U	2500	2463		ug/L		99	75 - 125
Bromomethane	<71.0	U	2500	2409		ug/L		96	60 - 140
Carbon disulfide	<82.5	U	2500	2358		ug/L		94	60 - 140
Carbon tetrachloride	3080		2500	5414		ug/L		93	62 - 125
Chlorobenzene	<22.8	U	2500	2489		ug/L		100	60 - 133
Chlorodibromomethane	<27.4	U	2500	2485		ug/L		99	73 - 125
Chloroethane	<99.2	U	2500	2126		ug/L		85	60 - 140
Chloroform	<23.2	U	2500	2627		ug/L		105	70 - 130
Chloromethane	<102	U	2500	2044		ug/L		82	60 - 140
Chloroprene	<29.9	U	2500	2490		ug/L		100	70 - 130
cis-1,2-Dichloroethene	<22.9	U	2500	2522		ug/L		101	75 - 125
cis-1,3-Dichloropropene	<53.4	U	2500	2518		ug/L		101	74 - 125
Cumene (isopropylbenzene)	<29.6	U	2500	2456		ug/L		98	75 - 125
Cyclohexane	<64.3	U	2500	2383		ug/L		95	70 - 130
Dibromomethane	<17.9	U	2500	2615		ug/L		105	69 - 127
Dichlorodifluoromethane	<39.3	U F1	2500	1709	F1	ug/L		68	70 - 130
Ethyl methacrylate	<55.9	U	2500	2402		ug/L		96	70 - 130
Ethylbenzene	<19.3	U	2500	2475		ug/L		99	75 - 125
Hexane	<25.9	U	2500	2463		ug/L		99	72 - 125
Iodomethane	<326	U	2500	2913		ug/L		117	75 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61847-5 MS

Matrix: Water

Analysis Batch: 131898

Client Sample ID: MW-29-S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Isobutanol	<855	U	62000	60940		ug/L		98	60 - 140
Methacrylonitrile	<136	U	25000	25390		ug/L		102	70 - 130
Methyl methacrylate	<113	U	5000	4969		ug/L		99	70 - 130
Methyl tert-butyl ether	<69.6	U	2500	2457		ug/L		98	65 - 135
Methylene Chloride	<86.3	U	2500	2565		ug/L		103	75 - 125
Propionitrile	<167	U	25000	25470		ug/L		102	70 - 130
Propylbenzene	<21.5	U	2500	2504		ug/L		100	75 - 125
Styrene	<31.0	U	2500	2483		ug/L		99	75 - 125
Tetrachloroethene	<32.8	U	2500	2483		ug/L		99	71 - 125
Tetrahydrofuran	<91.7	U	5000	5164		ug/L		103	75 - 125
Toluene	<23.8	U	2500	2477		ug/L		99	59 - 139
trans-1,2-Dichloroethene	<18.4	U	2500	2597		ug/L		104	75 - 125
trans-1,3-Dichloropropene	<63.4	U	2500	2437		ug/L		97	66 - 125
trans-1,4-Dichloro-2-butene	<67.5	U	2500	2529		ug/L		101	70 - 130
Trichloroethene	<75.0	U	2500	2578		ug/L		103	62 - 137
Trichlorofluoromethane	<28.0	U	2500	2566		ug/L		103	60 - 140
Vinyl acetate	<107	U	12500	12750		ug/L		102	60 - 140
Vinyl chloride	<21.4	U	2500	2216		ug/L		89	60 - 140
Xylenes, Total	<62.0	U	5000	4907		ug/L		98	75 - 125
m,p-Xylenes	<0.0620	U	2.50	2.451		mg/L		98	75 - 125
o-Xylene	<0.0251	U	2.50	2.456		mg/L		98	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	103		75 - 131
Toluene-d8 (Surr)	98		80 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-131915/1-A

Matrix: Water

Analysis Batch: 131978

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 131915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.150	U	0.571	0.150	ug/L		11/20/23 12:55	11/21/23 04:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	74		37 - 133	11/20/23 12:55	11/21/23 04:42	1

Lab Sample ID: LCS 860-131915/2-A

Matrix: Water

Analysis Batch: 131978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 131915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.86	0.7802		ug/L		27	27 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-131915/2-A

Matrix: Water

Analysis Batch: 131978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 131915

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	111		35 - 130
2-Fluorophenol (Surr)	53		19 - 120
2-Fluorobiphenyl	124		43 - 130
Nitrobenzene-d5 (Surr)	143	S1+	37 - 133
Phenol-d5 (Surr)	40		8 - 124
p-Terphenyl-d14 (Surr)	100		47 - 130

Lab Sample ID: LCSD 860-131915/3-A

Matrix: Water

Analysis Batch: 131978

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 131915

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.86	0.7714		ug/L		27	27 - 130	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	98		35 - 130						
2-Fluorophenol (Surr)	50		19 - 120						
2-Fluorobiphenyl	109		43 - 130						
Nitrobenzene-d5 (Surr)	119		37 - 133						
Phenol-d5 (Surr)	38		8 - 124						
p-Terphenyl-d14 (Surr)	96		47 - 130						

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 860-132355/1-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/22/23 17:23	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/22/23 17:23	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/22/23 17:23	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/22/23 13:06	11/22/23 17:23	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/22/23 17:23	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/22/23 17:23	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/22/23 17:23	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/22/23 17:23	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/22/23 17:23	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/22/23 17:23	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-132355/1-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/22/23 17:23	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/22/23 17:23	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/22/23 17:23	1
3,3'-Dimethylbenzidine	<0.444	U	8.00	0.444	ug/L		11/22/23 13:06	11/22/23 17:23	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/22/23 17:23	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/22/23 17:23	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/22/23 17:23	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/22/23 17:23	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/22/23 17:23	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/22/23 17:23	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/22/23 17:23	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/22/23 17:23	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/22/23 17:23	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/22/23 17:23	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/22/23 17:23	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/22/23 17:23	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/22/23 17:23	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/22/23 13:06	11/22/23 17:23	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/22/23 17:23	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/22/23 13:06	11/22/23 17:23	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/22/23 17:23	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/22/23 17:23	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/22/23 17:23	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/22/23 17:23	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/22/23 17:23	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/22/23 17:23	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/22/23 17:23	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/22/23 17:23	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/22/23 17:23	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/22/23 17:23	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/22/23 17:23	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/22/23 17:23	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/22/23 17:23	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/22/23 17:23	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/22/23 17:23	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/22/23 13:06	11/22/23 17:23	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/22/23 17:23	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/22/23 17:23	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/22/23 17:23	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-132355/1-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/22/23 17:23	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/22/23 17:23	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/22/23 17:23	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/22/23 13:06	11/22/23 17:23	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/22/23 17:23	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/22/23 17:23	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/22/23 17:23	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/22/23 17:23	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/22/23 17:23	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/22/23 17:23	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/22/23 17:23	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/22/23 17:23	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/22/23 17:23	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/22/23 13:06	11/22/23 17:23	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/22/23 17:23	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/22/23 17:23	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/22/23 17:23	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/22/23 17:23	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/22/23 17:23	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/22/23 17:23	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/22/23 17:23	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/22/23 13:06	11/22/23 17:23	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/22/23 17:23	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/22/23 17:23	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/22/23 17:23	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/22/23 17:23	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/22/23 17:23	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/22/23 17:23	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/22/23 17:23	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/22/23 17:23	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/22/23 13:06	11/22/23 17:23	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/22/23 17:23	1
p-Phenylene diamine	<10.0	U	10.0	10.0	ug/L		11/22/23 13:06	11/22/23 17:23	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/22/23 17:23	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/22/23 17:23	1
Pyridine	1.202	J	2.00	0.725	ug/L		11/22/23 13:06	11/22/23 17:23	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/22/23 17:23	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/22/23 17:23	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/22/23 17:23	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-132355/1-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/22/23 17:23	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/22/23 17:23	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/22/23 17:23	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/22/23 13:06	11/22/23 17:23	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/22/23 17:23	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/22/23 17:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	45		31 - 132	11/22/23 13:06	11/22/23 17:23	1
2-Fluorobiphenyl	58		40 - 130	11/22/23 13:06	11/22/23 17:23	1
2-Fluorophenol (Surr)	38		21 - 114	11/22/23 13:06	11/22/23 17:23	1
Nitrobenzene-d5 (Surr)	55		37 - 130	11/22/23 13:06	11/22/23 17:23	1
Phenol-d5 (Surr)	20		16 - 117	11/22/23 13:06	11/22/23 17:23	1
p-Terphenyl-d14	84		20 - 141	11/22/23 13:06	11/22/23 17:23	1

Lab Sample ID: LCS 860-132355/2-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1'-Biphenyl	20.0	10.41		ug/L		52	41 - 117
1,2,4,5-Tetrachlorobenzene	20.0	10.11		ug/L		51	39 - 120
1,2,4-Trichlorobenzene	20.0	10.27		ug/L		51	34 - 117
1,2-Dichlorobenzene	20.0	10.77		ug/L		54	38 - 111
1,3,5-Trinitrobenzene	20.0	16.84		ug/L		84	35 - 128
1,3-Dichlorobenzene	20.0	10.63		ug/L		53	37 - 111
1,3-Dinitrobenzene	20.0	11.11		ug/L		56	36 - 131
1,4-Dichlorobenzene	20.0	10.63		ug/L		53	37 - 111
1,4-Naphthoquinone	20.0	10.45		ug/L		52	10 - 150
1-Naphthylamine	20.0	9.067		ug/L		45	40 - 120
2,2'-oxybis[1-chloropropane]	20.0	10.43		ug/L		52	10 - 150
2,3,4,6-Tetrachlorophenol	20.0	10.58		ug/L		53	33 - 132
2,4,5-Trichlorophenol	20.0	10.83		ug/L		54	39 - 125
2,4,6-Trichlorophenol	20.0	10.60		ug/L		53	42 - 125
2,4-Dichlorophenol	20.0	9.861		ug/L		49	38 - 120
2,4-Dimethylphenol	20.0	12.33		ug/L		62	39 - 117
2,4-Dinitrophenol	20.0	9.811		ug/L		49	13 - 152
2,4-Dinitrotoluene	20.0	12.21		ug/L		61	41 - 128
2,6-Dichlorophenol	20.0	10.21		ug/L		51	42 - 118
2,6-Dinitrotoluene	20.0	11.51		ug/L		58	42 - 127
2-Acetylaminofluorene	20.0	17.38		ug/L		87	40 - 130
2-Chloronaphthalene	20.0	10.01		ug/L		50	40 - 118
2-Chlorophenol	20.0	9.736		ug/L		49	41 - 108
2-Methylnaphthalene	20.0	10.74		ug/L		54	37 - 112
2-Methylphenol	20.0	9.422		ug/L		47	36 - 125
2-Naphthylamine	20.0	7.715	J *	ug/L		39	40 - 120
2-Nitroaniline	20.0	9.300		ug/L		47	34 - 126
2-Nitrophenol	20.0	10.67		ug/L		53	38 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-132355/2-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Picoline	20.0	2.835		ug/L		14	11 - 107
2-Toluidine	20.0	8.391		ug/L		42	38 - 124
3 & 4 Methylphenol	20.0	8.129		ug/L		41	35 - 116
3,3'-Dichlorobenzidine	20.0	14.57		ug/L		73	29 - 141
3,3'-Dimethylbenzidine	20.0	2.366	J *	ug/L		12	40 - 130
3-Methylcholanthrene	20.0	16.73		ug/L		84	20 - 130
3-Nitroaniline	20.0	10.92		ug/L		55	42 - 123
4,6-Dinitro-2-methylphenol	20.0	12.25		ug/L		61	12 - 157
4-Aminobiphenyl	20.0	10.58		ug/L		53	20 - 130
4-Bromophenyl phenyl ether	20.0	10.73		ug/L		54	40 - 126
4-Chloro-3-methylphenol	20.0	10.04		ug/L		50	40 - 119
4-Chloroaniline	20.0	8.273		ug/L		41	39 - 111
4-Chlorophenyl phenyl ether	20.0	10.85		ug/L		54	40 - 122
4-Nitroaniline	20.0	9.858		ug/L		49	42 - 125
4-Nitroquinoline-1-oxide	20.0	12.91		ug/L		65	20 - 130
7,12-Dimethylbenz(a)anthracene	20.0	13.82		ug/L		69	40 - 120
Acenaphthene	20.0	10.96		ug/L		55	41 - 116
Acenaphthylene	20.0	11.32		ug/L		57	41 - 118
Acetophenone	20.0	9.545		ug/L		48	23 - 175
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0	
Aniline	20.0	6.185		ug/L		31	31 - 100
Anthracene	20.0	12.27		ug/L		61	39 - 127
Benzo[a]anthracene	20.0	15.40		ug/L		77	40 - 129
Benzo[a]pyrene	20.0	16.15		ug/L		81	36 - 141
Benzo[b]fluoranthene	20.0	15.05		ug/L		75	34 - 139
Benzo[g,h,i]perylene	20.0	20.03		ug/L		100	32 - 141
Benzo[k]fluoranthene	20.0	15.54		ug/L		78	31 - 139
Benzyl alcohol	20.0	10.18		ug/L		51	37 - 102
Bis(2-chloroethoxy)methane	20.0	9.344		ug/L		47	36 - 113
Bis(2-chloroethyl)ether	20.0	9.836		ug/L		49	38 - 111
Bis(2-ethylhexyl) phthalate	20.0	15.23		ug/L		76	44 - 136
Butyl benzyl phthalate	20.0	15.83		ug/L		79	44 - 133
Chrysene	20.0	15.18		ug/L		76	41 - 124
Dibenz(a,h)anthracene	20.0	19.38		ug/L		97	35 - 143
Dibenzofuran	20.0	10.92		ug/L		55	41 - 119
Diethyl phthalate	20.0	10.95		ug/L		55	41 - 125
Dimethyl phthalate	20.0	11.16		ug/L		56	42 - 123
Di-n-butyl phthalate	20.0	15.23		ug/L		76	41 - 133
Di-n-octyl phthalate	20.0	16.33		ug/L		82	34 - 145
Diphenyl ether	20.0	10.28		ug/L		51	40 - 130
Ethyl methanesulfonate	20.0	10.11		ug/L		51	40 - 127
Fluoranthene	20.0	15.28		ug/L		76	38 - 132
Fluorene	20.0	11.10		ug/L		55	41 - 121
Hexachlorobenzene	20.0	10.60		ug/L		53	39 - 128
Hexachlorobutadiene	20.0	10.26		ug/L		51	31 - 120
Hexachlorocyclopentadiene	20.0	11.57		ug/L		58	15 - 117
Hexachloroethane	20.0	10.14		ug/L		51	37 - 109
Hexachloropropene	20.0	9.994		ug/L		50	24 - 122

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-132355/2-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Indeno[1,2,3-cd]pyrene	20.0	19.63		ug/L		98	35 - 141
Isophorone	20.0	10.91		ug/L		55	40 - 115
Methyl methanesulfonate	20.0	9.092		ug/L		45	33 - 120
Naphthalene	20.0	10.50		ug/L		53	37 - 113
Nitrobenzene	20.0	10.24		ug/L		51	37 - 114
N-Nitro-o-toluidine	20.0	11.22		ug/L		56	40 - 120
N-Nitrosodiethylamine	20.0	10.97		ug/L		55	42 - 115
N-Nitrosodimethylamine	20.0	8.466		ug/L		42	28 - 126
N-Nitrosodi-n-butylamine	20.0	8.638		ug/L		43	34 - 122
N-Nitrosodi-n-propylamine	20.0	10.71		ug/L		54	38 - 117
N-Nitrosodiphenylamine	20.0	11.56		ug/L		58	40 - 127
N-Nitrosomethylethylamine	20.0	10.97		ug/L		55	41 - 108
N-Nitrosomorpholine	20.0	10.12		ug/L		51	32 - 115
N-Nitrosopiperidine	20.0	10.29		ug/L		51	39 - 115
N-Nitrosopyrrolidine	20.0	9.849		ug/L		49	36 - 121
p-Dimethylamino azobenzene	20.0	12.90		ug/L		65	38 - 124
Pentachlorobenzene	20.0	10.03		ug/L		50	40 - 123
Pentachloronitrobenzene	20.0	12.92		ug/L		65	40 - 120
Pentachlorophenol	20.0	11.88		ug/L		59	10 - 137
Phenacetin	20.0	14.45		ug/L		72	20 - 130
Phenanthrene	20.0	11.42		ug/L		57	39 - 126
Phenol	20.0	5.378		ug/L		27	15 - 106
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150
Pronamide	20.0	15.09		ug/L		75	25 - 120
Pyrene	20.0	12.61		ug/L		63	40 - 130
Pyridine	20.0	4.383		ug/L		22	16 - 135
Safrole, Total	20.0	10.76		ug/L		54	40 - 120
Aramite Peak 2	10.0	8.499		ug/L		85	35 - 130
Isosafrole Peak 1	3.20	<2.46	U	ug/L		51	40 - 120
Diallate Peak 2	5.20	2.885	J	ug/L		55	38 - 130
Isosafrole Peak 2	16.8	9.060		ug/L		54	40 - 120
Diallate Peak 1	14.8	8.787		ug/L		59	38 - 130
Aramite Peak 1	10.0	8.323		ug/L		83	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	66		31 - 132
2-Fluorobiphenyl	74		40 - 130
2-Fluorophenol (Surr)	46		21 - 114
Nitrobenzene-d5 (Surr)	63		37 - 130
Phenol-d5 (Surr)	33		16 - 117
p-Terphenyl-d14	101		20 - 141

Lab Sample ID: LCSD 860-132355/3-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	20.0	11.29		ug/L		56	41 - 117	8	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-132355/3-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	20.0	10.87		ug/L		54	39 - 120	7	30
1,2,4-Trichlorobenzene	20.0	11.12		ug/L		56	34 - 117	8	30
1,2-Dichlorobenzene	20.0	11.57		ug/L		58	38 - 111	7	30
1,3,5-Trinitrobenzene	20.0	14.41		ug/L		72	35 - 128	16	30
1,3-Dichlorobenzene	20.0	11.62		ug/L		58	37 - 111	9	30
1,3-Dinitrobenzene	20.0	11.24		ug/L		56	36 - 131	1	30
1,4-Dichlorobenzene	20.0	11.33		ug/L		57	37 - 111	6	30
1,4-Naphthoquinone	20.0	11.36		ug/L		57	10 - 150	8	30
1-Naphthylamine	20.0	9.590		ug/L		48	40 - 120	6	30
2,2'-oxybis[1-chloropropane]	20.0	11.01		ug/L		55	10 - 150	5	30
2,3,4,6-Tetrachlorophenol	20.0	11.82		ug/L		59	33 - 132	11	30
2,4,5-Trichlorophenol	20.0	11.65		ug/L		58	39 - 125	7	30
2,4,6-Trichlorophenol	20.0	11.51		ug/L		58	42 - 125	8	30
2,4-Dichlorophenol	20.0	10.42		ug/L		52	38 - 120	6	30
2,4-Dimethylphenol	20.0	14.35		ug/L		72	39 - 117	15	30
2,4-Dinitrophenol	20.0	11.07		ug/L		55	13 - 152	12	30
2,4-Dinitrotoluene	20.0	13.73		ug/L		69	41 - 128	12	30
2,6-Dichlorophenol	20.0	10.72		ug/L		54	42 - 118	5	30
2,6-Dinitrotoluene	20.0	12.43		ug/L		62	42 - 127	8	30
2-Acetylaminofluorene	20.0	14.18		ug/L		71	40 - 130	20	30
2-Chloronaphthalene	20.0	10.59		ug/L		53	40 - 118	6	30
2-Chlorophenol	20.0	10.74		ug/L		54	41 - 108	10	30
2-Methylnaphthalene	20.0	11.80		ug/L		59	37 - 112	9	30
2-Methylphenol	20.0	10.25		ug/L		51	36 - 125	8	30
2-Naphthylamine	20.0	9.062		ug/L		45	40 - 120	16	30
2-Nitroaniline	20.0	10.39		ug/L		52	34 - 126	11	30
2-Nitrophenol	20.0	11.60		ug/L		58	38 - 125	8	30
2-Picoline	20.0	4.441	*1	ug/L		22	11 - 107	44	30
2-Toluidine	20.0	9.595		ug/L		48	38 - 124	13	30
3 & 4 Methylphenol	20.0	8.985		ug/L		45	35 - 116	10	30
3,3'-Dichlorobenzidine	20.0	12.74		ug/L		64	29 - 141	13	30
3,3'-Dimethylbenzidine	20.0	4.084	J *- *1	ug/L		20	40 - 130	53	30
3-Methylcholanthrene	20.0	13.43		ug/L		67	20 - 130	22	30
3-Nitroaniline	20.0	11.27		ug/L		56	42 - 123	3	30
4,6-Dinitro-2-methylphenol	20.0	14.15		ug/L		71	12 - 157	14	30
4-Aminobiphenyl	20.0	10.50		ug/L		52	20 - 130	1	30
4-Bromophenyl phenyl ether	20.0	11.59		ug/L		58	40 - 126	8	30
4-Chloro-3-methylphenol	20.0	11.09		ug/L		55	40 - 119	10	30
4-Chloroaniline	20.0	9.205		ug/L		46	39 - 111	11	30
4-Chlorophenyl phenyl ether	20.0	11.36		ug/L		57	40 - 122	5	30
4-Nitroaniline	20.0	10.13		ug/L		51	42 - 125	3	30
4-Nitroquinoline-1-oxide	20.0	10.97		ug/L		55	20 - 130	16	30
7,12-Dimethylbenz(a)anthracene	20.0	11.26		ug/L		56	40 - 120	20	30
Acenaphthene	20.0	12.01		ug/L		60	41 - 116	9	30
Acenaphthylene	20.0	11.98		ug/L		60	41 - 118	6	30
Acetophenone	20.0	10.56		ug/L		53	23 - 175	10	30
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0		NC	30
Aniline	20.0	8.583	*1	ug/L		43	31 - 100	32	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-132355/3-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene	20.0	12.83		ug/L		64	39 - 127	4	30
Benzo[a]anthracene	20.0	12.87		ug/L		64	40 - 129	18	30
Benzo[a]pyrene	20.0	13.24		ug/L		66	36 - 141	20	30
Benzo[b]fluoranthene	20.0	12.35		ug/L		62	34 - 139	20	30
Benzo[g,h,i]perylene	20.0	15.88		ug/L		79	32 - 141	23	30
Benzo[k]fluoranthene	20.0	12.42		ug/L		62	31 - 139	22	30
Benzyl alcohol	20.0	11.50		ug/L		58	37 - 102	12	30
Bis(2-chloroethoxy)methane	20.0	10.19		ug/L		51	36 - 113	9	30
Bis(2-chloroethyl)ether	20.0	10.99		ug/L		55	38 - 111	11	30
Bis(2-ethylhexyl) phthalate	20.0	12.49		ug/L		62	44 - 136	20	30
Butyl benzyl phthalate	20.0	12.99		ug/L		65	44 - 133	20	30
Chrysene	20.0	12.93		ug/L		65	41 - 124	16	30
Dibenz(a,h)anthracene	20.0	15.66		ug/L		78	35 - 143	21	30
Dibenzofuran	20.0	11.44		ug/L		57	41 - 119	5	30
Diethyl phthalate	20.0	11.50		ug/L		58	41 - 125	5	30
Dimethyl phthalate	20.0	11.90		ug/L		60	42 - 123	6	30
Di-n-butyl phthalate	20.0	14.02		ug/L		70	41 - 133	8	30
Di-n-octyl phthalate	20.0	13.65		ug/L		68	34 - 145	18	30
Diphenyl ether	20.0	11.12		ug/L		56	40 - 130	8	30
Ethyl methanesulfonate	20.0	10.89		ug/L		54	40 - 127	7	30
Fluoranthene	20.0	14.34		ug/L		72	38 - 132	6	30
Fluorene	20.0	11.65		ug/L		58	41 - 121	5	30
Hexachlorobenzene	20.0	11.22		ug/L		56	39 - 128	6	30
Hexachlorobutadiene	20.0	11.37		ug/L		57	31 - 120	10	30
Hexachlorocyclopentadiene	20.0	12.04		ug/L		60	15 - 117	4	30
Hexachloroethane	20.0	10.98		ug/L		55	37 - 109	8	30
Hexachloropropene	20.0	11.20		ug/L		56	24 - 122	11	30
Indeno[1,2,3-cd]pyrene	20.0	15.96		ug/L		80	35 - 141	21	30
Isophorone	20.0	12.09		ug/L		60	40 - 115	10	30
Methyl methanesulfonate	20.0	10.15		ug/L		51	33 - 120	11	30
Naphthalene	20.0	11.13		ug/L		56	37 - 113	6	30
Nitrobenzene	20.0	11.04		ug/L		55	37 - 114	7	30
N-Nitro-o-toluidine	20.0	11.90		ug/L		60	40 - 120	6	30
N-Nitrosodiethylamine	20.0	11.52		ug/L		58	42 - 115	5	30
N-Nitrosodimethylamine	20.0	9.550		ug/L		48	28 - 126	12	30
N-Nitrosodi-n-butylamine	20.0	9.457		ug/L		47	34 - 122	9	30
N-Nitrosodi-n-propylamine	20.0	11.57		ug/L		58	38 - 117	8	30
N-Nitrosodiphenylamine	20.0	12.83		ug/L		64	40 - 127	10	30
N-Nitrosomethylethylamine	20.0	11.56		ug/L		58	41 - 108	5	30
N-Nitrosomorpholine	20.0	11.62		ug/L		58	32 - 115	14	30
N-Nitrosopiperidine	20.0	11.17		ug/L		56	39 - 115	8	30
N-Nitrosopyrrolidine	20.0	11.20		ug/L		56	36 - 121	13	30
p-Dimethylamino azobenzene	20.0	11.12		ug/L		56	38 - 124	15	30
Pentachlorobenzene	20.0	10.79		ug/L		54	40 - 123	7	30
Pentachloronitrobenzene	20.0	12.57		ug/L		63	40 - 120	3	30
Pentachlorophenol	20.0	11.59		ug/L		58	10 - 137	2	30
Phenacetin	20.0	12.08		ug/L		60	20 - 130	18	30
Phenanthrene	20.0	12.25		ug/L		61	39 - 126	7	30
Phenol	20.0	6.179		ug/L		31	15 - 106	14	30

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-132355/3-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150	NC	30
Pronamide	20.0	13.67		ug/L		68	25 - 120	10	30
Pyrene	20.0	11.60		ug/L		58	40 - 130	8	30
Pyridine	20.0	6.657	*1	ug/L		33	16 - 135	41	30
Safrole, Total	20.0	11.33		ug/L		57	40 - 120	5	30
Aramite Peak 2	10.0	6.924		ug/L		69	35 - 130	20	30
Isosafrole Peak 1	3.20	<2.46	U	ug/L		57	40 - 120	12	30
Diallate Peak 2	5.20	3.045	J	ug/L		59	38 - 130	5	30
Isosafrole Peak 2	16.8	9.441		ug/L		56	40 - 120	4	30
Diallate Peak 1	14.8	9.249		ug/L		62	38 - 130	5	30
Aramite Peak 1	10.0	7.177		ug/L		72	35 - 130	15	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	73		31 - 132
2-Fluorobiphenyl	74		40 - 130
2-Fluorophenol (Surr)	49		21 - 114
Nitrobenzene-d5 (Surr)	67		37 - 130
Phenol-d5 (Surr)	36		16 - 117
p-Terphenyl-d14	85		20 - 141

Lab Sample ID: 860-61897-A-9-B MS

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.938	J	20.0	11.45		ug/L		53	41 - 117
1,2,4,5-Tetrachlorobenzene	<0.672	U	20.0	10.03		ug/L		50	39 - 120
1,2,4-Trichlorobenzene	<0.680	U	20.0	9.918		ug/L		50	34 - 117
1,2-Dichlorobenzene	<0.296	U	20.0	10.97		ug/L		55	38 - 111
1,3,5-Trinitrobenzene	<1.43	U	20.0	17.63		ug/L		88	70 - 130
1,3-Dichlorobenzene	<0.350	U	20.0	10.74		ug/L		54	37 - 111
1,3-Dinitrobenzene	<0.112	U	20.0	12.25		ug/L		61	36 - 131
1,4-Dichlorobenzene	<0.428	U	20.0	10.69		ug/L		53	37 - 111
1,4-Naphthoquinone	<1.85	U F1	20.0	11.41	F1	ug/L		57	70 - 130
1-Naphthylamine	<0.232	U	20.0	9.518		ug/L		48	40 - 120
2,2'-oxybis[1-chloropropane]	<0.139	U	20.0	10.32		ug/L		52	32 - 110
2,3,4,6-Tetrachlorophenol	<0.174	U	20.0	13.93		ug/L		70	33 - 132
2,4,5-Trichlorophenol	<0.108	U	20.0	12.06		ug/L		60	39 - 125
2,4,6-Trichlorophenol	<0.135	U	20.0	11.61		ug/L		58	42 - 125
2,4-Dichlorophenol	<0.115	U	20.0	10.33		ug/L		52	38 - 120
2,4-Dimethylphenol	<0.148	U	20.0	13.42		ug/L		67	39 - 117
2,4-Dinitrophenol	<1.46	U	20.0	14.09		ug/L		70	13 - 152
2,4-Dinitrotoluene	<0.127	U	20.0	14.40		ug/L		72	41 - 128
2,6-Dichlorophenol	<0.126	U	20.0	9.965		ug/L		50	42 - 118
2,6-Dinitrotoluene	<0.199	U	20.0	13.25		ug/L		66	42 - 127
2-Acetylaminofluorene	<1.52	U	20.0	17.73		ug/L		89	70 - 130
2-Chloronaphthalene	<1.09	U	20.0	10.13		ug/L		51	40 - 118
2-Chlorophenol	<0.0135	U	20.0	10.34		ug/L		52	41 - 108

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61897-A-9-B MS

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	0.775	J	20.0	12.76		ug/L		60	37 - 112
2-Methylphenol	<0.159	U	20.0	10.04		ug/L		50	36 - 125
2-Naphthylamine	<0.595	U *	20.0	9.041		ug/L		45	40 - 120
2-Nitroaniline	<0.163	U	20.0	13.45		ug/L		67	34 - 126
2-Nitrophenol	<0.135	U	20.0	11.05		ug/L		55	38 - 125
2-Picoline	<0.215	U *1	20.0	5.471		ug/L		27	11 - 107
2-Toluidine	<0.934	U F1	20.0	9.624	F1	ug/L		48	70 - 130
3 & 4 Methylphenol	<0.163	U	20.0	8.391		ug/L		42	35 - 116
3,3'-Dichlorobenzidine	<0.220	U	20.0	6.336		ug/L		32	29 - 141
3,3'-Dimethylbenzidine	<0.444	U F1 *- *1	20.0	0.6487	J F1	ug/L		3	70 - 130
3-Methylcholanthrene	<0.159	U	20.0	17.04		ug/L		85	20 - 130
3-Nitroaniline	<0.344	U	20.0	13.02		ug/L		65	42 - 123
4,6-Dinitro-2-methylphenol	<0.736	U	20.0	16.44		ug/L		82	12 - 157
4-Aminobiphenyl	<0.297	U	20.0	9.482		ug/L		47	20 - 130
4-Bromophenyl phenyl ether	<0.167	U	20.0	12.57		ug/L		63	40 - 126
4-Chloro-3-methylphenol	<0.157	U	20.0	12.03		ug/L		60	40 - 119
4-Chloroaniline	<0.149	U	20.0	8.619		ug/L		43	39 - 111
4-Chlorophenyl phenyl ether	<0.232	U	20.0	11.56		ug/L		58	40 - 122
4-Nitroaniline	<0.247	U	20.0	14.47		ug/L		72	42 - 125
4-Nitroquinoline-1-oxide	<2.15	U F1	20.0	13.49	F1	ug/L		67	70 - 130
7,12-Dimethylbenz(a)anthracene	<0.0610	U	20.0	13.84		ug/L		69	40 - 120
Acenaphthene	<0.208	U	20.0	11.58		ug/L		58	41 - 118
Acenaphthylene	<0.215	U	20.0	11.91		ug/L		60	41 - 116
Acetophenone	<0.225	U	20.0	11.06		ug/L		55	23 - 125
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	20.0	<4.00	U F1	ug/L		0	70 - 130
Aniline	<0.314	U *1	20.0	9.438		ug/L		47	31 - 120
Anthracene	<0.154	U	20.0	14.66		ug/L		73	39 - 127
Benzo[a]anthracene	<0.150	U	20.0	15.63		ug/L		78	40 - 129
Benzo[a]pyrene	<0.148	U	20.0	16.72		ug/L		84	36 - 141
Benzo[b]fluoranthene	<0.210	U	20.0	15.23		ug/L		76	34 - 139
Benzo[g,h,i]perylene	<0.143	U	20.0	20.44		ug/L		102	32 - 141
Benzo[k]fluoranthene	<0.166	U	20.0	15.24		ug/L		76	31 - 139
Benzyl alcohol	<4.50	U	20.0	10.68		ug/L		53	37 - 102
Bis(2-chloroethoxy)methane	<0.170	U	20.0	9.738		ug/L		49	36 - 113
Bis(2-chloroethyl)ether	<0.278	U	20.0	10.12		ug/L		51	38 - 111
Bis(2-ethylhexyl) phthalate	<0.225	U	20.0	16.55		ug/L		83	44 - 136
Butyl benzyl phthalate	<0.150	U	20.0	17.17		ug/L		86	44 - 133
Chrysene	<0.159	U	20.0	15.51		ug/L		78	41 - 124
Dibenz(a,h)anthracene	<0.148	U	20.0	20.56		ug/L		103	35 - 143
Dibenzofuran	<0.336	U	20.0	11.30		ug/L		56	41 - 119
Diethyl phthalate	<0.118	U	20.0	12.71		ug/L		64	41 - 125
Dimethyl phthalate	<0.143	U	20.0	12.20		ug/L		61	42 - 123
Di-n-butyl phthalate	<0.800	U	20.0	18.04		ug/L		90	41 - 133
Di-n-octyl phthalate	<0.169	U	20.0	16.59		ug/L		83	34 - 145
Diphenyl ether	258	E	20.0	263.6	E 4	ug/L		26	
Ethyl methanesulfonate	<1.38	U F1	20.0	10.72	F1	ug/L		54	70 - 130
Fluoranthene	<0.148	U	20.0	17.44		ug/L		87	38 - 132
Fluorene	<0.205	U	20.0	11.79		ug/L		59	41 - 121

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61897-A-9-B MS

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	<0.126	U	20.0	11.84		ug/L		59	39 - 128
Hexachlorobutadiene	<0.252	U	20.0	10.51		ug/L		53	31 - 120
Hexachlorocyclopentadiene	<0.431	U	20.0	11.33		ug/L		57	15 - 117
Hexachloroethane	<0.140	U	20.0	10.31		ug/L		52	37 - 109
Hexachloropropene	<0.213	U	20.0	10.13		ug/L		51	
Indeno[1,2,3-cd]pyrene	<0.852	U	20.0	20.24		ug/L		101	35 - 141
Isophorone	<0.168	U	20.0	11.43		ug/L		57	40 - 115
Methyl methanesulfonate	<0.0610	U F1	20.0	9.201	F1	ug/L		46	70 - 130
Naphthalene	0.868	J	20.0	12.45		ug/L		58	37 - 113
Nitrobenzene	<0.934	U	20.0	10.35		ug/L		52	37 - 114
N-Nitro-o-toluidine	<1.31	U	20.0	13.93		ug/L		70	35 - 130
N-Nitrosodiethylamine	<1.54	U F1	20.0	11.48	F1	ug/L		57	70 - 130
N-Nitrosodimethylamine	<0.126	U	20.0	8.751		ug/L		44	28 - 127
N-Nitrosodi-n-butylamine	<1.54	U	20.0	9.299		ug/L		46	34 - 122
N-Nitrosodi-n-propylamine	<0.161	U	20.0	11.45		ug/L		57	38 - 117
N-Nitrosodiphenylamine	<0.155	U	20.0	14.38		ug/L		72	40 - 127
N-Nitrosomethylethylamine	<0.199	U	20.0	10.69		ug/L		53	28 - 126
N-Nitrosomorpholine	<1.44	U F1	20.0	11.39	F1	ug/L		57	70 - 130
N-Nitrosopiperidine	<1.44	U	20.0	11.13		ug/L		56	39 - 115
N-Nitrosopyrrolidine	<1.38	U	20.0	10.19		ug/L		51	36 - 121
p-Dimethylamino azobenzene	<0.0579	U	20.0	13.88		ug/L		69	38 - 124
Pentachlorobenzene	<1.18	U	20.0	10.27		ug/L		51	40 - 123
Pentachloronitrobenzene	<1.27	U	20.0	14.83		ug/L		74	40 - 120
Pentachlorophenol	<0.441	U	20.0	16.16		ug/L		81	10 - 137
Phenacetin	<1.32	U	20.0	15.71		ug/L		79	20 - 130
Phenanthrene	<0.176	U	20.0	13.92		ug/L		70	39 - 126
Phenol	0.653	J	20.0	6.461		ug/L		29	15 - 106
p-Phenylene diamine	<10.0	U F1 *-	20.0	<10.0	U F1	ug/L		0	1 - 150
Pronamide	<1.39	U	20.0	17.94		ug/L		90	25 - 120
Pyrene	<0.159	U	20.0	14.49		ug/L		72	40 - 130
Pyridine	1.45	J B *1	20.0	6.695		ug/L		26	16 - 135
Safrole, Total	<0.183	U F1	20.0	10.76	F1	ug/L		54	70 - 130
Aramite Peak 2	<2.74	U	10.0	8.807		ug/L		88	
Isosafrole Peak 1	<2.46	U F1	3.20	<2.46	U F1	ug/L		0	70 - 130
Diallate Peak 2	<0.602	U F1	5.20	3.414	J F1	ug/L		66	70 - 130
Isosafrole Peak 2	<2.12	U F1	16.8	9.154	F1	ug/L		54	70 - 130
Diallate Peak 1	<0.675	U	14.8	10.63		ug/L		72	70 - 130
Aramite Peak 1	<0.670	U	10.0	9.166		ug/L		92	

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	86		31 - 132
2-Fluorobiphenyl	72		40 - 130
2-Fluorophenol (Surr)	48		21 - 114
Nitrobenzene-d5 (Surr)	66		37 - 130
Phenol-d5 (Surr)	35		16 - 117
p-Terphenyl-d14	106		20 - 141

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61897-A-9-C MSD

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	0.938	J	20.0	13.46		ug/L		63	41 - 117	16	30
1,2,4,5-Tetrachlorobenzene	<0.672	U	20.0	11.21		ug/L		56	39 - 120	11	30
1,2,4-Trichlorobenzene	<0.680	U	20.0	11.93		ug/L		60	34 - 117	18	30
1,2-Dichlorobenzene	<0.296	U	20.0	12.33		ug/L		62	38 - 111	12	30
1,3,5-Trinitrobenzene	<1.43	U	20.0	18.37		ug/L		92	70 - 130	4	30
1,3-Dichlorobenzene	<0.350	U	20.0	12.43		ug/L		62	37 - 111	15	30
1,3-Dinitrobenzene	<0.112	U	20.0	14.77		ug/L		74	36 - 131	19	30
1,4-Dichlorobenzene	<0.428	U	20.0	11.71		ug/L		59	37 - 111	9	30
1,4-Naphthoquinone	<1.85	U F1	20.0	13.72	F1	ug/L		69	70 - 130	18	30
1-Naphthylamine	<0.232	U	20.0	9.992		ug/L		50	40 - 120	5	30
2,2'-oxybis[1-chloropropane]	<0.139	U	20.0	11.93		ug/L		60	32 - 110	15	30
2,3,4,6-Tetrachlorophenol	<0.174	U	20.0	16.25		ug/L		81	33 - 132	15	30
2,4,5-Trichlorophenol	<0.108	U	20.0	14.96		ug/L		75	39 - 125	21	30
2,4,6-Trichlorophenol	<0.135	U	20.0	13.66		ug/L		68	42 - 125	16	30
2,4-Dichlorophenol	<0.115	U	20.0	12.29		ug/L		61	38 - 120	17	30
2,4-Dimethylphenol	<0.148	U	20.0	16.19		ug/L		81	39 - 117	19	30
2,4-Dinitrophenol	<1.46	U	20.0	15.92		ug/L		80	13 - 152	12	30
2,4-Dinitrotoluene	<0.127	U	20.0	17.33		ug/L		87	41 - 128	18	30
2,6-Dichlorophenol	<0.126	U	20.0	11.97		ug/L		60	42 - 118	18	30
2,6-Dinitrotoluene	<0.199	U	20.0	14.76		ug/L		74	42 - 127	11	30
2-Acetylaminofluorene	<1.52	U	20.0	20.42		ug/L		102	70 - 130	14	30
2-Chloronaphthalene	<1.09	U	20.0	11.56		ug/L		58	40 - 118	13	30
2-Chlorophenol	<0.0135	U	20.0	12.14		ug/L		61	41 - 108	16	30
2-Methylnaphthalene	0.775	J	20.0	13.53		ug/L		64	37 - 112	6	30
2-Methylphenol	<0.159	U	20.0	11.46		ug/L		57	36 - 125	13	30
2-Naphthylamine	<0.595	U *-	20.0	9.365		ug/L		47	40 - 120	4	30
2-Nitroaniline	<0.163	U	20.0	13.33		ug/L		67	34 - 126	1	30
2-Nitrophenol	<0.135	U	20.0	13.46		ug/L		67	38 - 125	20	30
2-Picoline	<0.215	U *1	20.0	6.145		ug/L		31	11 - 107	12	30
2-Toluidine	<0.934	U F1	20.0	9.964	F1	ug/L		50	70 - 130	3	30
3 & 4 Methylphenol	<0.163	U	20.0	10.16		ug/L		51	35 - 116	19	30
3,3'-Dichlorobenzidine	<0.220	U	20.0	7.014		ug/L		35	29 - 141	10	30
3,3'-Dimethylbenzidine	<0.444	U F1 *- *1	20.0	0.6681	J F1	ug/L		3	70 - 130	3	30
3-Methylcholanthrene	<0.159	U	20.0	19.34		ug/L		97	20 - 130	13	30
3-Nitroaniline	<0.344	U	20.0	14.98		ug/L		75	42 - 123	14	30
4,6-Dinitro-2-methylphenol	<0.736	U	20.0	18.42		ug/L		92	12 - 157	11	30
4-Aminobiphenyl	<0.297	U	20.0	9.707		ug/L		49	20 - 130	2	30
4-Bromophenyl phenyl ether	<0.167	U	20.0	13.67		ug/L		68	40 - 126	8	30
4-Chloro-3-methylphenol	<0.157	U	20.0	13.45		ug/L		67	40 - 119	11	30
4-Chloroaniline	<0.149	U	20.0	9.432		ug/L		47	39 - 111	9	30
4-Chlorophenyl phenyl ether	<0.232	U	20.0	13.26		ug/L		66	40 - 122	14	30
4-Nitroaniline	<0.247	U	20.0	14.72		ug/L		74	42 - 125	2	30
4-Nitroquinoline-1-oxide	<2.15	U F1	20.0	14.26		ug/L		71	70 - 130	6	30
7,12-Dimethylbenz(a)anthracene	<0.0610	U	20.0	15.35		ug/L		77	40 - 120	10	30
Acenaphthene	<0.208	U	20.0	13.50		ug/L		67	41 - 118	15	30
Acenaphthylene	<0.215	U	20.0	13.55		ug/L		68	41 - 116	13	30
Acetophenone	<0.225	U	20.0	13.02		ug/L		65	23 - 125	16	30
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	20.0	<4.00	U F1	ug/L		0	70 - 130	NC	

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61897-A-9-C MSD

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aniline	<0.314	U *1	20.0	9.828		ug/L		49	31 - 120	4	30
Anthracene	<0.154	U	20.0	16.04		ug/L		80	39 - 127	9	30
Benzo[a]anthracene	<0.150	U	20.0	17.45		ug/L		87	40 - 129	11	30
Benzo[a]pyrene	<0.148	U	20.0	18.25		ug/L		91	36 - 141	9	30
Benzo[b]fluoranthene	<0.210	U	20.0	16.41		ug/L		82	34 - 139	7	30
Benzo[g,h,i]perylene	<0.143	U	20.0	23.01		ug/L		115	32 - 141	12	30
Benzo[k]fluoranthene	<0.166	U	20.0	17.39		ug/L		87	31 - 139	13	30
Benzyl alcohol	<4.50	U	20.0	13.04		ug/L		65	37 - 102	20	30
Bis(2-chloroethoxy)methane	<0.170	U	20.0	11.76		ug/L		59	36 - 113	19	30
Bis(2-chloroethyl)ether	<0.278	U	20.0	12.11		ug/L		61	38 - 111	18	30
Bis(2-ethylhexyl) phthalate	<0.225	U	20.0	17.49		ug/L		87	44 - 136	6	30
Butyl benzyl phthalate	<0.150	U	20.0	18.54		ug/L		93	44 - 133	8	30
Chrysene	<0.159	U	20.0	17.02		ug/L		85	41 - 124	9	30
Dibenz(a,h)anthracene	<0.148	U	20.0	22.29		ug/L		111	35 - 143	8	30
Dibenzofuran	<0.336	U	20.0	13.13		ug/L		66	41 - 119	15	30
Diethyl phthalate	<0.118	U	20.0	14.77		ug/L		74	41 - 125	15	30
Dimethyl phthalate	<0.143	U	20.0	14.13		ug/L		71	42 - 123	15	30
Di-n-butyl phthalate	<0.800	U	20.0	19.43		ug/L		97	41 - 133	7	30
Di-n-octyl phthalate	<0.169	U	20.0	17.62		ug/L		88	34 - 145	6	30
Diphenyl ether	258	E	20.0	286.7	E 4	ug/L		142		8	30
Ethyl methanesulfonate	<1.38	U F1	20.0	12.09	F1	ug/L		60	70 - 130	12	30
Fluoranthene	<0.148	U	20.0	18.94		ug/L		95	38 - 132	8	30
Fluorene	<0.205	U	20.0	13.48		ug/L		67	41 - 121	13	30
Hexachlorobenzene	<0.126	U	20.0	13.37		ug/L		67	39 - 128	12	30
Hexachlorobutadiene	<0.252	U	20.0	11.94		ug/L		60	31 - 120	13	30
Hexachlorocyclopentadiene	<0.431	U	20.0	13.28		ug/L		66	15 - 117	16	30
Hexachloroethane	<0.140	U	20.0	11.78		ug/L		59	37 - 109	13	30
Hexachloropropene	<0.213	U	20.0	12.32		ug/L		62		20	30
Indeno[1,2,3-cd]pyrene	<0.852	U	20.0	22.44		ug/L		112	35 - 141	10	30
Isophorone	<0.168	U	20.0	13.26		ug/L		66	40 - 115	15	30
Methyl methanesulfonate	<0.0610	U F1	20.0	10.62	F1	ug/L		53	70 - 130	14	30
Naphthalene	0.868	J	20.0	13.24		ug/L		62	37 - 113	6	30
Nitrobenzene	<0.934	U	20.0	12.03		ug/L		60	37 - 114	15	30
N-Nitro-o-toluidine	<1.31	U	20.0	15.30		ug/L		76	35 - 130	9	30
N-Nitrosodiethylamine	<1.54	U F1	20.0	13.17	F1	ug/L		66	70 - 130	14	30
N-Nitrosodimethylamine	<0.126	U	20.0	9.955		ug/L		50	28 - 127	13	30
N-Nitrosodi-n-butylamine	<1.54	U	20.0	10.93		ug/L		55	34 - 122	16	30
N-Nitrosodi-n-propylamine	<0.161	U	20.0	13.90		ug/L		70	38 - 117	19	30
N-Nitrosodiphenylamine	<0.155	U	20.0	15.79		ug/L		79	40 - 127	9	30
N-Nitrosomethylethylamine	<0.199	U	20.0	12.76		ug/L		64	28 - 126	18	30
N-Nitrosomorpholine	<1.44	U F1	20.0	13.91		ug/L		70	70 - 130	20	30
N-Nitrosopiperidine	<1.44	U	20.0	12.57		ug/L		63	39 - 115	12	30
N-Nitrosopyrrolidine	<1.38	U	20.0	11.92		ug/L		60	36 - 121	16	30
p-Dimethylamino azobenzene	<0.0579	U	20.0	15.35		ug/L		77	38 - 124	10	30
Pentachlorobenzene	<1.18	U	20.0	12.11		ug/L		61	40 - 123	16	30
Pentachloronitrobenzene	<1.27	U	20.0	16.34		ug/L		82	40 - 120	10	30
Pentachlorophenol	<0.441	U	20.0	17.52		ug/L		88	10 - 137	8	30
Phenacetin	<1.32	U	20.0	17.14		ug/L		86	20 - 130	9	30
Phenanthrene	<0.176	U	20.0	15.49		ug/L		77	39 - 126	11	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61897-A-9-C MSD

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol	0.653	J	20.0	7.808		ug/L		36	15 - 106	19	30
p-Phenylene diamine	<10.0	U F1 *-	20.0	<10.0	U F1	ug/L		0	1 - 150	NC	50
Pronamide	<1.39	U	20.0	19.60		ug/L		98	25 - 120	9	30
Pyrene	<0.159	U	20.0	15.96		ug/L		80	40 - 130	10	30
Pyridine	1.45	J B *1	20.0	7.739		ug/L		31	16 - 135	14	30
Safrole, Total	<0.183	U F1	20.0	12.40	F1	ug/L		62	70 - 130	14	30
Aramite Peak 2	<2.74	U	10.0	9.936		ug/L		99		12	30
Isosafrole Peak 1	<2.46	U F1	3.20	<2.46	U F1	ug/L		0	70 - 130	NC	30
Diallate Peak 2	<0.602	U F1	5.20	3.962	J	ug/L		76	70 - 130	15	30
Isosafrole Peak 2	<2.12	U F1	16.8	10.62	F1	ug/L		63	70 - 130	15	30
Diallate Peak 1	<0.675	U	14.8	11.71		ug/L		79	70 - 130	10	30
Aramite Peak 1	<0.670	U	10.0	10.30		ug/L		103		12	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	97		31 - 132
2-Fluorobiphenyl	83		40 - 130
2-Fluorophenol (Surr)	58		21 - 114
Nitrobenzene-d5 (Surr)	76		37 - 130
Phenol-d5 (Surr)	40		16 - 117
p-Terphenyl-d14	114		20 - 141

Lab Sample ID: MB 860-132655/1-A

Matrix: Water

Analysis Batch: 132828

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132655

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/27/23 16:37	11/28/23 18:32	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/27/23 16:37	11/28/23 18:32	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/27/23 16:37	11/28/23 18:32	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/27/23 16:37	11/28/23 18:32	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/27/23 16:37	11/28/23 18:32	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/27/23 16:37	11/28/23 18:32	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/27/23 16:37	11/28/23 18:32	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/27/23 16:37	11/28/23 18:32	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/27/23 16:37	11/28/23 18:32	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/27/23 16:37	11/28/23 18:32	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/27/23 16:37	11/28/23 18:32	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/27/23 16:37	11/28/23 18:32	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/27/23 16:37	11/28/23 18:32	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/27/23 16:37	11/28/23 18:32	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/27/23 16:37	11/28/23 18:32	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/27/23 16:37	11/28/23 18:32	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/27/23 16:37	11/28/23 18:32	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/27/23 16:37	11/28/23 18:32	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/27/23 16:37	11/28/23 18:32	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/27/23 16:37	11/28/23 18:32	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/27/23 16:37	11/28/23 18:32	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/27/23 16:37	11/28/23 18:32	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-132655/1-A

Matrix: Water

Analysis Batch: 132828

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132655

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/27/23 16:37	11/28/23 18:32	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/27/23 16:37	11/28/23 18:32	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/27/23 16:37	11/28/23 18:32	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/27/23 16:37	11/28/23 18:32	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/27/23 16:37	11/28/23 18:32	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/27/23 16:37	11/28/23 18:32	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/27/23 16:37	11/28/23 18:32	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/27/23 16:37	11/28/23 18:32	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/27/23 16:37	11/28/23 18:32	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/27/23 16:37	11/28/23 18:32	1
3,3'-Dimethylbenzidine	<0.444	U	8.00	0.444	ug/L		11/27/23 16:37	11/28/23 18:32	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/27/23 16:37	11/28/23 18:32	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/27/23 16:37	11/28/23 18:32	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/27/23 16:37	11/28/23 18:32	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/27/23 16:37	11/28/23 18:32	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/27/23 16:37	11/28/23 18:32	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/27/23 16:37	11/28/23 18:32	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/27/23 16:37	11/28/23 18:32	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/27/23 16:37	11/28/23 18:32	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/27/23 16:37	11/28/23 18:32	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/27/23 16:37	11/28/23 18:32	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/27/23 16:37	11/28/23 18:32	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/27/23 16:37	11/28/23 18:32	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/27/23 16:37	11/28/23 18:32	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/27/23 16:37	11/28/23 18:32	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/27/23 16:37	11/28/23 18:32	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/27/23 16:37	11/28/23 18:32	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/27/23 16:37	11/28/23 18:32	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/27/23 16:37	11/28/23 18:32	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/27/23 16:37	11/28/23 18:32	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/27/23 16:37	11/28/23 18:32	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/27/23 16:37	11/28/23 18:32	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/27/23 16:37	11/28/23 18:32	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/27/23 16:37	11/28/23 18:32	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/27/23 16:37	11/28/23 18:32	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/27/23 16:37	11/28/23 18:32	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/27/23 16:37	11/28/23 18:32	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/27/23 16:37	11/28/23 18:32	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/27/23 16:37	11/28/23 18:32	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/27/23 16:37	11/28/23 18:32	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/27/23 16:37	11/28/23 18:32	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/27/23 16:37	11/28/23 18:32	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/27/23 16:37	11/28/23 18:32	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/27/23 16:37	11/28/23 18:32	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/27/23 16:37	11/28/23 18:32	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/27/23 16:37	11/28/23 18:32	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/27/23 16:37	11/28/23 18:32	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/27/23 16:37	11/28/23 18:32	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/27/23 16:37	11/28/23 18:32	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-132655/1-A

Matrix: Water

Analysis Batch: 132828

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132655

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/27/23 16:37	11/28/23 18:32	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/27/23 16:37	11/28/23 18:32	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/27/23 16:37	11/28/23 18:32	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/27/23 16:37	11/28/23 18:32	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/27/23 16:37	11/28/23 18:32	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/27/23 16:37	11/28/23 18:32	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/27/23 16:37	11/28/23 18:32	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/27/23 16:37	11/28/23 18:32	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/27/23 16:37	11/28/23 18:32	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/27/23 16:37	11/28/23 18:32	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/27/23 16:37	11/28/23 18:32	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/27/23 16:37	11/28/23 18:32	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/27/23 16:37	11/28/23 18:32	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/27/23 16:37	11/28/23 18:32	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/27/23 16:37	11/28/23 18:32	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/27/23 16:37	11/28/23 18:32	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/27/23 16:37	11/28/23 18:32	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/27/23 16:37	11/28/23 18:32	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/27/23 16:37	11/28/23 18:32	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/27/23 16:37	11/28/23 18:32	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/27/23 16:37	11/28/23 18:32	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/27/23 16:37	11/28/23 18:32	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/27/23 16:37	11/28/23 18:32	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/27/23 16:37	11/28/23 18:32	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/27/23 16:37	11/28/23 18:32	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/27/23 16:37	11/28/23 18:32	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/27/23 16:37	11/28/23 18:32	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/27/23 16:37	11/28/23 18:32	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/27/23 16:37	11/28/23 18:32	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/27/23 16:37	11/28/23 18:32	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/27/23 16:37	11/28/23 18:32	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/27/23 16:37	11/28/23 18:32	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/27/23 16:37	11/28/23 18:32	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/27/23 16:37	11/28/23 18:32	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/27/23 16:37	11/28/23 18:32	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/27/23 16:37	11/28/23 18:32	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/27/23 16:37	11/28/23 18:32	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/27/23 16:37	11/28/23 18:32	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/27/23 16:37	11/28/23 18:32	1
p-Phenylene diamine	<10.0	U	10.0	10.0	ug/L		11/27/23 16:37	11/28/23 18:32	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/27/23 16:37	11/28/23 18:32	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/27/23 16:37	11/28/23 18:32	1
Pyridine	<0.725	U	2.00	0.725	ug/L		11/27/23 16:37	11/28/23 18:32	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/27/23 16:37	11/28/23 18:32	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/27/23 16:37	11/28/23 18:32	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/27/23 16:37	11/28/23 18:32	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/27/23 16:37	11/28/23 18:32	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/27/23 16:37	11/28/23 18:32	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/27/23 16:37	11/28/23 18:32	1

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatle Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-132655/1-A

Matrix: Water

Analysis Batch: 132828

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132655

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/27/23 16:37	11/28/23 18:32	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/27/23 16:37	11/28/23 18:32	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/27/23 16:37	11/28/23 18:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	45		31 - 132	11/27/23 16:37	11/28/23 18:32	1
2-Fluorobiphenyl	57		40 - 130	11/27/23 16:37	11/28/23 18:32	1
2-Fluorophenol (Surr)	40		21 - 114	11/27/23 16:37	11/28/23 18:32	1
Nitrobenzene-d5 (Surr)	52		37 - 130	11/27/23 16:37	11/28/23 18:32	1
Phenol-d5 (Surr)	20		16 - 117	11/27/23 16:37	11/28/23 18:32	1
p-Terphenyl-d14	98		20 - 141	11/27/23 16:37	11/28/23 18:32	1

Lab Sample ID: LCS 860-132655/24-A

Matrix: Water

Analysis Batch: 132899

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	20.0	12.40		ug/L		62	41 - 117
1,2,4,5-Tetrachlorobenzene	20.0	12.10		ug/L		61	39 - 120
1,2,4-Trichlorobenzene	20.0	12.23		ug/L		61	34 - 117
1,2-Dichlorobenzene	20.0	12.90		ug/L		65	38 - 111
1,3,5-Trinitrobenzene	20.0	19.55		ug/L		98	35 - 128
1,3-Dichlorobenzene	20.0	12.85		ug/L		64	37 - 111
1,3-Dinitrobenzene	20.0	14.57		ug/L		73	36 - 131
1,4-Dichlorobenzene	20.0	12.75		ug/L		64	37 - 111
1,4-Naphthoquinone	20.0	14.22		ug/L		71	10 - 150
1-Naphthylamine	20.0	13.03		ug/L		65	40 - 120
2,2'-oxybis[1-chloropropane]	20.0	13.81		ug/L		69	10 - 150
2,3,4,6-Tetrachlorophenol	20.0	16.78		ug/L		84	33 - 132
2,4,5-Trichlorophenol	20.0	14.86		ug/L		74	39 - 125
2,4,6-Trichlorophenol	20.0	13.90		ug/L		69	42 - 125
2,4-Dichlorophenol	20.0	12.04		ug/L		60	38 - 120
2,4-Dimethylphenol	20.0	15.60		ug/L		78	39 - 117
2,4-Dinitrophenol	20.0	16.73		ug/L		84	13 - 152
2,4-Dinitrotoluene	20.0	17.69		ug/L		88	41 - 128
2,6-Dichlorophenol	20.0	12.26		ug/L		61	42 - 118
2,6-Dinitrotoluene	20.0	15.37		ug/L		77	42 - 127
2-Acetylaminofluorene	20.0	16.56		ug/L		83	40 - 130
2-Chloronaphthalene	20.0	11.36		ug/L		57	40 - 118
2-Chlorophenol	20.0	11.85		ug/L		59	41 - 108
2-Methylnaphthalene	20.0	13.14		ug/L		66	37 - 112
2-Methylphenol	20.0	11.55		ug/L		58	36 - 125
2-Naphthylamine	20.0	12.31		ug/L		62	40 - 120
2-Nitroaniline	20.0	12.47		ug/L		62	34 - 126
2-Nitrophenol	20.0	12.72		ug/L		64	38 - 125
2-Picoline	20.0	5.369		ug/L		27	11 - 107
2-Toluidine	20.0	10.95		ug/L		55	38 - 124
3 & 4 Methylphenol	20.0	9.612		ug/L		48	35 - 116

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-132655/24-A

Matrix: Water

Analysis Batch: 132899

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3,3'-Dichlorobenzidine	20.0	16.69		ug/L		83	29 - 141
3,3'-Dimethylbenzidine	20.0	6.024	J *	ug/L		30	40 - 130
3-Methylcholanthrene	20.0	18.24		ug/L		91	20 - 130
3-Nitroaniline	20.0	14.52		ug/L		73	42 - 123
4,6-Dinitro-2-methylphenol	20.0	18.38		ug/L		92	12 - 157
4-Aminobiphenyl	20.0	15.10		ug/L		76	20 - 130
4-Bromophenyl phenyl ether	20.0	15.07		ug/L		75	40 - 126
4-Chloro-3-methylphenol	20.0	13.85		ug/L		69	40 - 119
4-Chloroaniline	20.0	10.17		ug/L		51	39 - 111
4-Chlorophenyl phenyl ether	20.0	14.05		ug/L		70	40 - 122
4-Nitroaniline	20.0	13.58		ug/L		68	42 - 125
4-Nitroquinoline-1-oxide	20.0	13.52		ug/L		68	20 - 130
7,12-Dimethylbenz(a)anthracene	20.0	16.77		ug/L		84	40 - 120
Acenaphthene	20.0	13.51		ug/L		68	41 - 116
Acenaphthylene	20.0	13.75		ug/L		69	41 - 118
Acetophenone	20.0	12.03		ug/L		60	23 - 175
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0	
Aniline	20.0	8.943		ug/L		45	31 - 100
Anthracene	20.0	16.72		ug/L		84	39 - 127
Benzo[a]anthracene	20.0	16.81		ug/L		84	40 - 129
Benzo[a]pyrene	20.0	18.00		ug/L		90	36 - 141
Benzo[b]fluoranthene	20.0	17.19		ug/L		86	34 - 139
Benzo[g,h,i]perylene	20.0	17.87		ug/L		89	32 - 141
Benzo[k]fluoranthene	20.0	17.22		ug/L		86	31 - 139
Benzyl alcohol	20.0	12.24		ug/L		61	37 - 102
Bis(2-chloroethoxy)methane	20.0	12.22		ug/L		61	36 - 113
Bis(2-chloroethyl)ether	20.0	13.35		ug/L		67	38 - 111
Bis(2-ethylhexyl) phthalate	20.0	18.24		ug/L		91	44 - 136
Butyl benzyl phthalate	20.0	18.68		ug/L		93	44 - 133
Chrysene	20.0	16.97		ug/L		85	41 - 124
Dibenz(a,h)anthracene	20.0	18.10		ug/L		90	35 - 143
Dibenzofuran	20.0	13.27		ug/L		66	41 - 119
Diethyl phthalate	20.0	15.44		ug/L		77	41 - 125
Dimethyl phthalate	20.0	15.17		ug/L		76	42 - 123
Di-n-butyl phthalate	20.0	19.45		ug/L		97	41 - 133
Di-n-octyl phthalate	20.0	19.51		ug/L		98	34 - 145
Diphenyl ether	20.0	12.47		ug/L		62	40 - 130
Ethyl methanesulfonate	20.0	12.40		ug/L		62	40 - 127
Fluoranthene	20.0	17.92		ug/L		90	38 - 132
Fluorene	20.0	13.79		ug/L		69	41 - 121
Hexachlorobenzene	20.0	14.62		ug/L		73	39 - 128
Hexachlorobutadiene	20.0	13.37		ug/L		67	31 - 120
Hexachlorocyclopentadiene	20.0	15.04		ug/L		75	15 - 117
Hexachloroethane	20.0	12.61		ug/L		63	37 - 109
Hexachloropropene	20.0	13.13		ug/L		66	24 - 122
Indeno[1,2,3-cd]pyrene	20.0	18.59		ug/L		93	35 - 141
Isophorone	20.0	14.02		ug/L		70	40 - 115
Methyl methanesulfonate	20.0	11.06		ug/L		55	33 - 120

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-132655/24-A

Matrix: Water

Analysis Batch: 132899

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	20.0	12.73		ug/L		64	37 - 113
Nitrobenzene	20.0	11.93		ug/L		60	37 - 114
N-Nitro-o-toluidine	20.0	15.54		ug/L		78	40 - 120
N-Nitrosodiethylamine	20.0	13.23		ug/L		66	42 - 115
N-Nitrosodimethylamine	20.0	10.75		ug/L		54	28 - 126
N-Nitrosodi-n-butylamine	20.0	11.52		ug/L		58	34 - 122
N-Nitrosodi-n-propylamine	20.0	13.38		ug/L		67	38 - 117
N-Nitrosodiphenylamine	20.0	16.35		ug/L		82	40 - 127
N-Nitrosomethylethylamine	20.0	13.05		ug/L		65	41 - 108
N-Nitrosomorpholine	20.0	12.27		ug/L		61	32 - 115
N-Nitrosopiperidine	20.0	12.72		ug/L		64	39 - 115
N-Nitrosopyrrolidine	20.0	11.81		ug/L		59	36 - 121
p-Dimethylamino azobenzene	20.0	15.53		ug/L		78	38 - 124
Pentachlorobenzene	20.0	12.60		ug/L		63	40 - 123
Pentachloronitrobenzene	20.0	17.10		ug/L		86	40 - 120
Pentachlorophenol	20.0	16.12		ug/L		81	10 - 137
Phenacetin	20.0	15.78		ug/L		79	20 - 130
Phenanthrene	20.0	15.52		ug/L		78	39 - 126
Phenol	20.0	6.749		ug/L		34	15 - 106
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150
Pronamide	20.0	19.23		ug/L		96	25 - 120
Pyrene	20.0	16.17		ug/L		81	40 - 130
Pyridine	20.0	5.601		ug/L		28	16 - 135
Safrole, Total	20.0	12.93		ug/L		65	40 - 120
Aramite Peak 2	10.0	9.967		ug/L		100	35 - 130
Isosafrole Peak 1	3.20	<2.46	U	ug/L		58	40 - 120
Diallate Peak 2	5.20	4.264	J	ug/L		82	38 - 130
Isosafrole Peak 2	16.8	11.16		ug/L		66	40 - 120
Diallate Peak 1	14.8	13.37		ug/L		90	38 - 130
Aramite Peak 1	10.0	10.06		ug/L		101	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	79		31 - 132
2-Fluorobiphenyl	69		40 - 130
2-Fluorophenol (Surr)	44		21 - 114
Nitrobenzene-d5 (Surr)	61		37 - 130
Phenol-d5 (Surr)	32		16 - 117
p-Terphenyl-d14	101		20 - 141

Lab Sample ID: LCSD 860-132655/25-A

Matrix: Water

Analysis Batch: 132899

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132655

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	20.0	10.32		ug/L		52	41 - 117	18	30
1,2,4,5-Tetrachlorobenzene	20.0	10.18		ug/L		51	39 - 120	17	30
1,2,4-Trichlorobenzene	20.0	10.52		ug/L		53	34 - 117	15	30
1,2-Dichlorobenzene	20.0	10.99		ug/L		55	38 - 111	16	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-132655/25-A

Matrix: Water

Analysis Batch: 132899

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132655

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene	20.0	19.27		ug/L		96	35 - 128	1	30
1,3-Dichlorobenzene	20.0	10.93		ug/L		55	37 - 111	16	30
1,3-Dinitrobenzene	20.0	12.94		ug/L		65	36 - 131	12	30
1,4-Dichlorobenzene	20.0	11.04		ug/L		55	37 - 111	14	30
1,4-Naphthoquinone	20.0	12.19		ug/L		61	10 - 150	15	30
1-Naphthylamine	20.0	11.30		ug/L		57	40 - 120	14	30
2,2'-oxybis[1-chloropropane]	20.0	11.64		ug/L		58	10 - 150	17	30
2,3,4,6-Tetrachlorophenol	20.0	14.09		ug/L		70	33 - 132	17	30
2,4,5-Trichlorophenol	20.0	11.91		ug/L		60	39 - 125	22	30
2,4,6-Trichlorophenol	20.0	11.46		ug/L		57	42 - 125	19	30
2,4-Dichlorophenol	20.0	9.999		ug/L		50	38 - 120	18	30
2,4-Dimethylphenol	20.0	13.01		ug/L		65	39 - 117	18	30
2,4-Dinitrophenol	20.0	16.10		ug/L		81	13 - 152	4	30
2,4-Dinitrotoluene	20.0	15.85		ug/L		79	41 - 128	11	30
2,6-Dichlorophenol	20.0	10.24		ug/L		51	42 - 118	18	30
2,6-Dinitrotoluene	20.0	12.98		ug/L		65	42 - 127	17	30
2-Acetylaminofluorene	20.0	17.72		ug/L		89	40 - 130	7	30
2-Chloronaphthalene	20.0	9.761		ug/L		49	40 - 118	15	30
2-Chlorophenol	20.0	10.45		ug/L		52	41 - 108	13	30
2-Methylnaphthalene	20.0	11.26		ug/L		56	37 - 112	15	30
2-Methylphenol	20.0	9.573		ug/L		48	36 - 125	19	30
2-Naphthylamine	20.0	11.17		ug/L		56	40 - 120	10	30
2-Nitroaniline	20.0	10.77		ug/L		54	34 - 126	15	30
2-Nitrophenol	20.0	11.35		ug/L		57	38 - 125	11	30
2-Picoline	20.0	4.718		ug/L		24	11 - 107	13	30
2-Toluidine	20.0	10.16		ug/L		51	38 - 124	8	30
3 & 4 Methylphenol	20.0	8.009		ug/L		40	35 - 116	18	30
3,3'-Dichlorobenzidine	20.0	17.95		ug/L		90	29 - 141	7	30
3,3'-Dimethylbenzidine	20.0	5.184	J *	ug/L		26	40 - 130	15	30
3-Methylcholanthrene	20.0	18.82		ug/L		94	20 - 130	3	30
3-Nitroaniline	20.0	12.95		ug/L		65	42 - 123	11	30
4,6-Dinitro-2-methylphenol	20.0	16.93		ug/L		85	12 - 157	8	30
4-Aminobiphenyl	20.0	13.39		ug/L		67	20 - 130	12	30
4-Bromophenyl phenyl ether	20.0	12.49		ug/L		62	40 - 126	19	30
4-Chloro-3-methylphenol	20.0	11.57		ug/L		58	40 - 119	18	30
4-Chloroaniline	20.0	8.928		ug/L		45	39 - 111	13	30
4-Chlorophenyl phenyl ether	20.0	11.98		ug/L		60	40 - 122	16	30
4-Nitroaniline	20.0	13.21		ug/L		66	42 - 125	3	30
4-Nitroquinoline-1-oxide	20.0	14.30		ug/L		71	20 - 130	6	30
7,12-Dimethylbenz(a)anthracene	20.0	17.26		ug/L		86	40 - 120	3	30
Acenaphthene	20.0	11.52		ug/L		58	41 - 116	16	30
Acenaphthylene	20.0	11.61		ug/L		58	41 - 118	17	30
Acetophenone	20.0	10.25		ug/L		51	23 - 175	16	30
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0		NC	30
Aniline	20.0	9.245		ug/L		46	31 - 100	3	30
Anthracene	20.0	14.15		ug/L		71	39 - 127	17	30
Benzo[a]anthracene	20.0	17.34		ug/L		87	40 - 129	3	30
Benzo[a]pyrene	20.0	18.37		ug/L		92	36 - 141	2	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-132655/25-A

Matrix: Water

Analysis Batch: 132899

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132655

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[b]fluoranthene	20.0	18.14		ug/L		91	34 - 139	5	30
Benzo[g,h,i]perylene	20.0	17.79		ug/L		89	32 - 141	0	30
Benzo[k]fluoranthene	20.0	17.16		ug/L		86	31 - 139	0	30
Benzyl alcohol	20.0	10.19		ug/L		51	37 - 102	18	30
Bis(2-chloroethoxy)methane	20.0	10.35		ug/L		52	36 - 113	17	30
Bis(2-chloroethyl)ether	20.0	10.88		ug/L		54	38 - 111	20	30
Bis(2-ethylhexyl) phthalate	20.0	18.92		ug/L		95	44 - 136	4	30
Butyl benzyl phthalate	20.0	19.72		ug/L		99	44 - 133	5	30
Chrysene	20.0	17.13		ug/L		86	41 - 124	1	30
Dibenz(a,h)anthracene	20.0	19.05		ug/L		95	35 - 143	5	30
Dibenzofuran	20.0	11.38		ug/L		57	41 - 119	15	30
Diethyl phthalate	20.0	14.10		ug/L		70	41 - 125	9	30
Dimethyl phthalate	20.0	13.05		ug/L		65	42 - 123	15	30
Di-n-butyl phthalate	20.0	19.10		ug/L		95	41 - 133	2	30
Di-n-octyl phthalate	20.0	19.86		ug/L		99	34 - 145	2	30
Diphenyl ether	20.0	10.66		ug/L		53	40 - 130	16	30
Ethyl methanesulfonate	20.0	10.87		ug/L		54	40 - 127	13	30
Fluoranthene	20.0	17.39		ug/L		87	38 - 132	3	30
Fluorene	20.0	11.66		ug/L		58	41 - 121	17	30
Hexachlorobenzene	20.0	12.22		ug/L		61	39 - 128	18	30
Hexachlorobutadiene	20.0	11.28		ug/L		56	31 - 120	17	30
Hexachlorocyclopentadiene	20.0	12.52		ug/L		63	15 - 117	18	30
Hexachloroethane	20.0	10.94		ug/L		55	37 - 109	14	30
Hexachloropropene	20.0	11.23		ug/L		56	24 - 122	16	30
Indeno[1,2,3-cd]pyrene	20.0	17.84		ug/L		89	35 - 141	4	30
Isophorone	20.0	11.98		ug/L		60	40 - 115	16	30
Methyl methanesulfonate	20.0	9.674		ug/L		48	33 - 120	13	30
Naphthalene	20.0	10.74		ug/L		54	37 - 113	17	30
Nitrobenzene	20.0	10.56		ug/L		53	37 - 114	12	30
N-Nitro-o-toluidine	20.0	14.43		ug/L		72	40 - 120	7	30
N-Nitrosodiethylamine	20.0	11.93		ug/L		60	42 - 115	10	30
N-Nitrosodimethylamine	20.0	9.353		ug/L		47	28 - 126	14	30
N-Nitrosodi-n-butylamine	20.0	9.801		ug/L		49	34 - 122	16	30
N-Nitrosodi-n-propylamine	20.0	11.73		ug/L		59	38 - 117	13	30
N-Nitrosodiphenylamine	20.0	13.75		ug/L		69	40 - 127	17	30
N-Nitrosomethylethylamine	20.0	11.12		ug/L		56	41 - 108	16	30
N-Nitrosomorpholine	20.0	11.24		ug/L		56	32 - 115	9	30
N-Nitrosopiperidine	20.0	10.96		ug/L		55	39 - 115	15	30
N-Nitrosopyrrolidine	20.0	10.33		ug/L		52	36 - 121	13	30
p-Dimethylamino azobenzene	20.0	16.24		ug/L		81	38 - 124	4	30
Pentachlorobenzene	20.0	10.68		ug/L		53	40 - 123	16	30
Pentachloronitrobenzene	20.0	14.71		ug/L		74	40 - 120	15	30
Pentachlorophenol	20.0	15.53		ug/L		78	10 - 137	4	30
Phenacetin	20.0	15.80		ug/L		79	20 - 130	0	30
Phenanthrene	20.0	13.34		ug/L		67	39 - 126	15	30
Phenol	20.0	5.826		ug/L		29	15 - 106	15	30
p-Phenylene diamine	20.0	<10.0	U *-	ug/L		0	1 - 150	NC	30
Pronamide	20.0	18.66		ug/L		93	25 - 120	3	30
Pyrene	20.0	16.06		ug/L		80	40 - 130	1	30

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-132655/25-A

Matrix: Water

Analysis Batch: 132899

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132655

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pyridine	20.0	5.172		ug/L		26	16 - 135	8	30
Safrole, Total	20.0	11.10		ug/L		56	40 - 120	15	30
Aramite Peak 2	10.0	10.74		ug/L		107	35 - 130	7	30
Isosafrole Peak 1	3.20	<2.46	U	ug/L		54	40 - 120	7	30
Diallate Peak 2	5.20	3.531	J	ug/L		68	38 - 130	19	30
Isosafrole Peak 2	16.8	8.917		ug/L		53	40 - 120	22	30
Diallate Peak 1	14.8	10.95		ug/L		74	38 - 130	20	30
Aramite Peak 1	10.0	10.65		ug/L		107	35 - 130	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	68		31 - 132
2-Fluorobiphenyl	59		40 - 130
2-Fluorophenol (Surr)	39		21 - 114
Nitrobenzene-d5 (Surr)	54		37 - 130
Phenol-d5 (Surr)	29		16 - 117
p-Terphenyl-d14	103		20 - 141

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

GC/MS VOA

Analysis Batch: 131725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61847-1	TB-12 (111523)	Total/NA	Water	8260D	
860-61847-3	MW-30-D	Total/NA	Water	8260D	
860-61847-4	RB-02	Total/NA	Water	8260D	
860-61847-5	MW-29-S	Total/NA	Water	8260D	
860-61847-6	MW-28-S	Total/NA	Water	8260D	
860-61847-7	MW-29-D	Total/NA	Water	8260D	
860-61847-8	FB-02	Total/NA	Water	8260D	
860-61847-9 - DL	MW-28-D	Total/NA	Water	8260D	
860-61847-10 - DL	DUP-02	Total/NA	Water	8260D	
860-61847-11 - DL	MW-26D	Total/NA	Water	8260D	
MB 860-131725/9	Method Blank	Total/NA	Water	8260D	
LCS 860-131725/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-131725/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61847-3 MS	MW-30-D	Total/NA	Water	8260D	

Analysis Batch: 131746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61847-3 - DL	MW-30-D	Total/NA	Water	8260D	
MB 860-131746/10	Method Blank	Total/NA	Water	8260D	
LCS 860-131746/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-131746/4	Lab Control Sample Dup	Total/NA	Water	8260D	
400-246535-A-9 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 131898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61847-2	MW-33-D	Total/NA	Water	8260D	
860-61847-5 - DL	MW-29-S	Total/NA	Water	8260D	
860-61847-9	MW-28-D	Total/NA	Water	8260D	
860-61847-10	DUP-02	Total/NA	Water	8260D	
860-61847-11	MW-26D	Total/NA	Water	8260D	
MB 860-131898/9	Method Blank	Total/NA	Water	8260D	
LCS 860-131898/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-131898/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61847-5 MS	MW-29-S	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 131915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61847-2	MW-33-D	Total/NA	Water	3511	
860-61847-3	MW-30-D	Total/NA	Water	3511	
860-61847-4	RB-02	Total/NA	Water	3511	
860-61847-5	MW-29-S	Total/NA	Water	3511	
860-61847-6	MW-28-S	Total/NA	Water	3511	
860-61847-7	MW-29-D	Total/NA	Water	3511	
860-61847-9	MW-28-D	Total/NA	Water	3511	
860-61847-10	DUP-02	Total/NA	Water	3511	
860-61847-11	MW-26D	Total/NA	Water	3511	
MB 860-131915/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-131915/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-131915/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Eurofins Houston

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

GC/MS Semi VOA

Analysis Batch: 131978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61847-2	MW-33-D	Total/NA	Water	8270E	131915
860-61847-3	MW-30-D	Total/NA	Water	8270E	131915
860-61847-4	RB-02	Total/NA	Water	8270E	131915
860-61847-5	MW-29-S	Total/NA	Water	8270E	131915
860-61847-6	MW-28-S	Total/NA	Water	8270E	131915
860-61847-7	MW-29-D	Total/NA	Water	8270E	131915
860-61847-9	MW-28-D	Total/NA	Water	8270E	131915
860-61847-10	DUP-02	Total/NA	Water	8270E	131915
860-61847-11	MW-26D	Total/NA	Water	8270E	131915
MB 860-131915/1-A	Method Blank	Total/NA	Water	8270E	131915
LCS 860-131915/2-A	Lab Control Sample	Total/NA	Water	8270E	131915
LCSD 860-131915/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	131915

Prep Batch: 132355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61847-2	MW-33-D	Total/NA	Water	3510C	
860-61847-2 - DL	MW-33-D	Total/NA	Water	3510C	
860-61847-2 - DL2	MW-33-D	Total/NA	Water	3510C	
860-61847-3 - DL	MW-30-D	Total/NA	Water	3510C	
860-61847-3	MW-30-D	Total/NA	Water	3510C	
860-61847-4	RB-02	Total/NA	Water	3510C	
860-61847-5	MW-29-S	Total/NA	Water	3510C	
860-61847-6	MW-28-S	Total/NA	Water	3510C	
860-61847-6 - DL	MW-28-S	Total/NA	Water	3510C	
860-61847-7	MW-29-D	Total/NA	Water	3510C	
860-61847-7 - DL	MW-29-D	Total/NA	Water	3510C	
860-61847-9	MW-28-D	Total/NA	Water	3510C	
860-61847-9 - DL2	MW-28-D	Total/NA	Water	3510C	
860-61847-9 - DL	MW-28-D	Total/NA	Water	3510C	
860-61847-10 - DL2	DUP-02	Total/NA	Water	3510C	
860-61847-10	DUP-02	Total/NA	Water	3510C	
860-61847-10 - DL	DUP-02	Total/NA	Water	3510C	
860-61847-11	MW-26D	Total/NA	Water	3510C	
860-61847-11 - DL	MW-26D	Total/NA	Water	3510C	
860-61847-11 - DL2	MW-26D	Total/NA	Water	3510C	
MB 860-132355/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-132355/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-132355/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
860-61897-A-9-B MS	Matrix Spike	Total/NA	Water	3510C	
860-61897-A-9-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 132390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-132355/1-A	Method Blank	Total/NA	Water	8270E LL	132355
LCS 860-132355/2-A	Lab Control Sample	Total/NA	Water	8270E LL	132355
LCSD 860-132355/3-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	132355
860-61897-A-9-B MS	Matrix Spike	Total/NA	Water	8270E LL	132355
860-61897-A-9-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270E LL	132355

Eurofins Houston

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

GC/MS Semi VOA

Analysis Batch: 132535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61847-2	MW-33-D	Total/NA	Water	8270E LL	132355
860-61847-3	MW-30-D	Total/NA	Water	8270E LL	132355
860-61847-4	RB-02	Total/NA	Water	8270E LL	132355
860-61847-5	MW-29-S	Total/NA	Water	8270E LL	132355
860-61847-6	MW-28-S	Total/NA	Water	8270E LL	132355
860-61847-7	MW-29-D	Total/NA	Water	8270E LL	132355
860-61847-9	MW-28-D	Total/NA	Water	8270E LL	132355
860-61847-10	DUP-02	Total/NA	Water	8270E LL	132355
860-61847-11	MW-26D	Total/NA	Water	8270E LL	132355

Prep Batch: 132655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61847-2 - RE	MW-33-D	Total/NA	Water	3510C	
860-61847-2 - DL	MW-33-D	Total/NA	Water	3510C	
860-61847-2 - DL2	MW-33-D	Total/NA	Water	3510C	
860-61847-3	MW-30-D	Total/NA	Water	3510C	
860-61847-4 - RE	RB-02	Total/NA	Water	3510C	
860-61847-5 - RE	MW-29-S	Total/NA	Water	3510C	
860-61847-6 - RE	MW-28-S	Total/NA	Water	3510C	
860-61847-6 - REDL	MW-28-S	Total/NA	Water	3510C	
860-61847-7 - RE	MW-29-D	Total/NA	Water	3510C	
860-61847-7 - REDL	MW-29-D	Total/NA	Water	3510C	
860-61847-9	MW-28-D	Total/NA	Water	3510C	
860-61847-9 - RE	MW-28-D	Total/NA	Water	3510C	
860-61847-9 - REDL	MW-28-D	Total/NA	Water	3510C	
860-61847-10 - REDL	DUP-02	Total/NA	Water	3510C	
860-61847-10 - RE	DUP-02	Total/NA	Water	3510C	
860-61847-10 - DL2	DUP-02	Total/NA	Water	3510C	
860-61847-11 - RE	MW-26D	Total/NA	Water	3510C	
860-61847-11 - DL	MW-26D	Total/NA	Water	3510C	
860-61847-11 - REDL	MW-26D	Total/NA	Water	3510C	
MB 860-132655/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-132655/24-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-132655/25-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 132731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61847-2 - DL	MW-33-D	Total/NA	Water	8270E LL	132355
860-61847-3 - DL	MW-30-D	Total/NA	Water	8270E LL	132355
860-61847-6 - DL	MW-28-S	Total/NA	Water	8270E LL	132355
860-61847-7 - DL	MW-29-D	Total/NA	Water	8270E LL	132355
860-61847-9 - DL	MW-28-D	Total/NA	Water	8270E LL	132355
860-61847-10 - DL	DUP-02	Total/NA	Water	8270E LL	132355
860-61847-11 - DL	MW-26D	Total/NA	Water	8270E LL	132355

Analysis Batch: 132828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61847-2 - RE	MW-33-D	Total/NA	Water	8270E LL	132655
860-61847-3	MW-30-D	Total/NA	Water	8270E LL	132655
860-61847-4 - RE	RB-02	Total/NA	Water	8270E LL	132655
860-61847-5 - RE	MW-29-S	Total/NA	Water	8270E LL	132655

Eurofins Houston

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

GC/MS Semi VOA (Continued)

Analysis Batch: 132828 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61847-6 - RE	MW-28-S	Total/NA	Water	8270E LL	132655
860-61847-7 - RE	MW-29-D	Total/NA	Water	8270E LL	132655
860-61847-9 - RE	MW-28-D	Total/NA	Water	8270E LL	132655
860-61847-10 - RE	DUP-02	Total/NA	Water	8270E LL	132655
860-61847-11 - RE	MW-26D	Total/NA	Water	8270E LL	132655
MB 860-132655/1-A	Method Blank	Total/NA	Water	8270E LL	132655

Analysis Batch: 132899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61847-6 - REDL	MW-28-S	Total/NA	Water	8270E LL	132655
860-61847-7 - REDL	MW-29-D	Total/NA	Water	8270E LL	132655
860-61847-9 - REDL	MW-28-D	Total/NA	Water	8270E LL	132655
860-61847-10 - REDL	DUP-02	Total/NA	Water	8270E LL	132655
860-61847-11 - REDL	MW-26D	Total/NA	Water	8270E LL	132655
LCS 860-132655/24-A	Lab Control Sample	Total/NA	Water	8270E LL	132655
LCSD 860-132655/25-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	132655

Analysis Batch: 133080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61847-2 - DL2	MW-33-D	Total/NA	Water	8270E LL	132355
860-61847-2 - DL	MW-33-D	Total/NA	Water	8270E LL	132655
860-61847-2 - DL2	MW-33-D	Total/NA	Water	8270E LL	132655
860-61847-9 - DL2	MW-28-D	Total/NA	Water	8270E LL	132355
860-61847-9	MW-28-D	Total/NA	Water	8270E LL	132655
860-61847-10 - DL2	DUP-02	Total/NA	Water	8270E LL	132655
860-61847-10 - DL2	DUP-02	Total/NA	Water	8270E LL	132355
860-61847-11 - DL	MW-26D	Total/NA	Water	8270E LL	132655
860-61847-11 - DL2	MW-26D	Total/NA	Water	8270E LL	132355

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: TB-12 (111523)

Lab Sample ID: 860-61847-1

Date Collected: 11/15/23 00:00

Matrix: Water

Date Received: 11/17/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131725	11/18/23 14:28	AN	EET HOU

Client Sample ID: MW-33-D

Lab Sample ID: 860-61847-2

Date Collected: 11/15/23 15:01

Matrix: Water

Date Received: 11/17/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131898	11/20/23 17:25	AN	EET HOU
Total/NA	Prep	3511			30.8 mL	2 mL	131915	11/20/23 12:55	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131978	11/21/23 10:07	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132535	11/27/23 11:31	EM	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	20	1 mL	1 mL	132731	11/28/23 11:55	T1S	EET HOU
Total/NA	Prep	3510C	RE		250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL	RE	1	1 mL	1 mL	132828	11/29/23 00:47	T1S	EET HOU
Total/NA	Prep	3510C	DL2		250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL	DL2	200	1 mL	1 mL	133080	11/30/23 12:16	EM	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	20	1 mL	1 mL	133080	11/30/23 12:37	EM	EET HOU
Total/NA	Prep	3510C	DL2		250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL	DL2	200	1 mL	1 mL	133080	11/30/23 12:58	EM	EET HOU

Client Sample ID: MW-30-D

Lab Sample ID: 860-61847-3

Date Collected: 11/15/23 15:05

Matrix: Water

Date Received: 11/17/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	DL	50	5 mL	5 mL	131746	11/19/23 04:45	AN	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	131725	11/18/23 15:30	AN	EET HOU
Total/NA	Prep	3511			31.3 mL	2 mL	131915	11/20/23 12:55	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131978	11/21/23 10:36	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132535	11/27/23 11:52	EM	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	5	1 mL	1 mL	132731	11/28/23 10:52	T1S	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132828	11/29/23 02:10	T1S	EET HOU

Client Sample ID: RB-02

Lab Sample ID: 860-61847-4

Date Collected: 11/16/23 08:00

Matrix: Water

Date Received: 11/17/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131725	11/18/23 18:55	AN	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: RB-02

Lab Sample ID: 860-61847-4

Date Collected: 11/16/23 08:00

Matrix: Water

Date Received: 11/17/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	131915	11/20/23 12:55	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131978	11/21/23 11:06	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132535	11/27/23 12:13	EM	EET HOU
Total/NA	Prep	3510C	RE		250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL	RE	1	1 mL	1 mL	132828	11/28/23 22:21	T1S	EET HOU

Client Sample ID: MW-29-S

Lab Sample ID: 860-61847-5

Date Collected: 11/16/23 08:45

Matrix: Water

Date Received: 11/17/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131725	11/18/23 19:15	AN	EET HOU
Total/NA	Analysis	8260D	DL	50	5 mL	5 mL	131898	11/20/23 16:23	AN	EET HOU
Total/NA	Prep	3511			30 mL	2 mL	131915	11/20/23 12:55	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131978	11/21/23 11:35	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132535	11/27/23 12:34	EM	EET HOU
Total/NA	Prep	3510C	RE		250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL	RE	1	1 mL	1 mL	132828	11/28/23 22:41	T1S	EET HOU

Client Sample ID: MW-28-S

Lab Sample ID: 860-61847-6

Date Collected: 11/16/23 09:00

Matrix: Water

Date Received: 11/17/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		500	5 mL	5 mL	131725	11/18/23 19:56	AN	EET HOU
Total/NA	Prep	3511			30.2 mL	2 mL	131915	11/20/23 12:55	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131978	11/21/23 12:05	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132535	11/27/23 12:54	EM	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	50	1 mL	1 mL	132731	11/28/23 12:36	T1S	EET HOU
Total/NA	Prep	3510C	RE		250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL	RE	1	1 mL	1 mL	132828	11/28/23 23:02	T1S	EET HOU
Total/NA	Prep	3510C	REDL		250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL	REDL	50	1 mL	1 mL	132899	11/29/23 12:53	EM	EET HOU

Client Sample ID: MW-29-D

Lab Sample ID: 860-61847-7

Date Collected: 11/16/23 09:49

Matrix: Water

Date Received: 11/17/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		500	5 mL	5 mL	131725	11/18/23 20:17	AN	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: MW-29-D

Lab Sample ID: 860-61847-7

Date Collected: 11/16/23 09:49

Matrix: Water

Date Received: 11/17/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30.3 mL	2 mL	131915	11/20/23 12:55	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131978	11/21/23 12:34	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132535	11/27/23 13:15	EM	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	20	1 mL	1 mL	132731	11/28/23 12:15	T1S	EET HOU
Total/NA	Prep	3510C	RE		250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL	RE	1	1 mL	1 mL	132828	11/28/23 23:23	T1S	EET HOU
Total/NA	Prep	3510C	REDL		250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL	REDL	20	1 mL	1 mL	132899	11/29/23 14:16	EM	EET HOU

Client Sample ID: FB-02

Lab Sample ID: 860-61847-8

Date Collected: 11/16/23 09:49

Matrix: Water

Date Received: 11/17/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	131725	11/18/23 14:49	AN	EET HOU

Client Sample ID: MW-28-D

Lab Sample ID: 860-61847-9

Date Collected: 11/16/23 11:50

Matrix: Water

Date Received: 11/17/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	DL	500	5 mL	5 mL	131725	11/18/23 20:37	AN	EET HOU
Total/NA	Analysis	8260D		100	5 mL	5 mL	131898	11/20/23 21:31	AN	EET HOU
Total/NA	Prep	3511			30 mL	2 mL	131915	11/20/23 12:55	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131978	11/21/23 13:04	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132535	11/27/23 13:36	EM	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	50	1 mL	1 mL	132731	11/28/23 12:57	T1S	EET HOU
Total/NA	Prep	3510C	RE		250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL	RE	1	1 mL	1 mL	132828	11/28/23 23:44	T1S	EET HOU
Total/NA	Prep	3510C	REDL		250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL	REDL	50	1 mL	1 mL	132899	11/29/23 13:13	EM	EET HOU
Total/NA	Prep	3510C	DL2		250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL	DL2	500	1 mL	1 mL	133080	11/30/23 13:19	EM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL		500	1 mL	1 mL	133080	11/30/23 14:22	EM	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Client Sample ID: DUP-02

Lab Sample ID: 860-61847-10

Date Collected: 11/16/23 00:00

Matrix: Water

Date Received: 11/17/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	DL	500	5 mL	5 mL	131725	11/18/23 20:58	AN	EET HOU
Total/NA	Analysis	8260D		100	5 mL	5 mL	131898	11/20/23 21:51	AN	EET HOU
Total/NA	Prep	3511			29.2 mL	2 mL	131915	11/20/23 12:55	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131978	11/21/23 13:33	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132535	11/27/23 14:18	EM	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	50	1 mL	1 mL	132731	11/28/23 13:38	T1S	EET HOU
Total/NA	Prep	3510C	RE		250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL	RE	1	1 mL	1 mL	132828	11/29/23 00:05	T1S	EET HOU
Total/NA	Prep	3510C	REDL		250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL	REDL	50	1 mL	1 mL	132899	11/29/23 13:34	EM	EET HOU
Total/NA	Prep	3510C	DL2		250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL	DL2	500	1 mL	1 mL	133080	11/30/23 11:34	EM	EET HOU
Total/NA	Prep	3510C	DL2		250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL	DL2	250	1 mL	1 mL	133080	11/30/23 16:13	EM	EET HOU

Client Sample ID: MW-26D

Lab Sample ID: 860-61847-11

Date Collected: 11/16/23 13:53

Matrix: Water

Date Received: 11/17/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	DL	1000	5 mL	5 mL	131725	11/18/23 21:18	AN	EET HOU
Total/NA	Analysis	8260D		200	5 mL	5 mL	131898	11/20/23 22:12	AN	EET HOU
Total/NA	Prep	3511			29.7 mL	2 mL	131915	11/20/23 12:55	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	131978	11/21/23 14:03	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132535	11/27/23 13:57	EM	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	50	1 mL	1 mL	132731	11/28/23 13:17	T1S	EET HOU
Total/NA	Prep	3510C	RE		250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL	RE	1	1 mL	1 mL	132828	11/29/23 00:26	T1S	EET HOU
Total/NA	Prep	3510C	REDL		250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL	REDL	50	1 mL	1 mL	132899	11/29/23 13:55	EM	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	132655	11/28/23 09:28	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	500	1 mL	1 mL	133080	11/30/23 11:55	EM	EET HOU
Total/NA	Prep	3510C	DL2		250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL	DL2	500	1 mL	1 mL	133080	11/30/23 13:40	EM	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Eurofins Houston

Accreditation/Certification Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61847-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-61847-1	TB-12 (111523)	Water	11/15/23 00:00	11/17/23 09:23
860-61847-2	MW-33-D	Water	11/15/23 15:01	11/17/23 09:23
860-61847-3	MW-30-D	Water	11/15/23 15:05	11/17/23 09:23
860-61847-4	RB-02	Water	11/16/23 08:00	11/17/23 09:23
860-61847-5	MW-29-S	Water	11/16/23 08:45	11/17/23 09:23
860-61847-6	MW-28-S	Water	11/16/23 09:00	11/17/23 09:23
860-61847-7	MW-29-D	Water	11/16/23 09:49	11/17/23 09:23
860-61847-8	FB-02	Water	11/16/23 09:49	11/17/23 09:23
860-61847-9	MW-28-D	Water	11/16/23 11:50	11/17/23 09:23
860-61847-10	DUP-02	Water	11/16/23 00:00	11/17/23 09:23
860-61847-11	MW-26D	Water	11/16/23 13:53	11/17/23 09:23

Client Information		Carrier Tracking No(s)		State of Origin	
Client Contact: Mr Antonio Cardoso Phone: 860-23558-8445.1 Email: antonio.cardoso@arcadis.com		Carrier Tracking No(s): 860-23558-8445.1 Page: 1031		State of Origin:	
Address: 4300 West Cypress Street Suite 450 City: Tampa State, Zip: FL, 33607 Phone:		Analysis Requested 860-61847 Chain of Custody		Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other	
Due Date Requested: TAT Requested (days): Compliance Project: ☐ Yes ☐ No PO #:		860-61847 Chain of Custody 860-61847 Chain of Custody		Special Instructions/Note:	
Project Name: Hercules Hattiesburg, MS Project #: 86006085 SSOW#:		860-61847 Chain of Custody 860-61847 Chain of Custody		Special Instructions/Note:	
Sample Identification TB-12(11523) MW-33-D MW-30-D RB-02 MW-29-S MW-28-S MW-29-D FB-02 MW-28-D DUP-02 MW-26-D		Sample Date 11/13/23 11/13/23 11/14/23 11/14/23 11/14/23 11/14/23 11/14/23 11/14/23 11/14/23 11/14/23		Matrix Water Water Water Water Water Water Water Water Water Water	
Sample Type G=grab G=grab G=grab G=grab G=grab G=grab G=grab G=grab G=grab G=grab G=grab		Sample Time 1501 1505 0800 0945 0900 0949 0949 1150 1353		Preservation Code: Water Water Water Water Water Water Water Water Water Water	
Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8270E SIM_ID_D5 1,4 Dioxane 8270E LL Appendix 8 VOCs 8260D Appendix 9 VOCs		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8270E SIM_ID_D5 1,4 Dioxane 8270E LL Appendix 8 VOCs 8260D Appendix 9 VOCs		Total Number of Containers 2 1 1 1 1 1 1 1 1 1 1	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological Deliverable Requested: I II III IV Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements.		Temp. 09 IR ID:HOU-360 C/F-G0 Corrected Temp: 0.9	
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by:		Date:		Received by:	
Relinquished by:		Date:		Received by:	
Relinquished by:		Date:		Received by:	
Custody Seal No.		Date:		Received by:	
Custody Seal No.		Date:		Received by:	
Custody Seal No.		Date:		Received by:	

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-61847-1

Login Number: 61847

List Number: 2

Creator: Rubio, Yuri

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

ANALYTICAL REPORT

PREPARED FOR

Attn: Timothy Hassett
Ashland LLC
Ashland Hercules Research Center
500 Hercules Rd Bldg 8145
Wilmington, Delaware 19808

Generated 11/30/2023 7:08:49 PM

JOB DESCRIPTION

Hercules Hattiesburg, MS

JOB NUMBER

860-61897-1

Eurofins Houston

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
11/30/2023 7:08:49 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Definitions/Glossary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Job ID: 860-61897-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-61897-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/20/2023 1:28 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.6°C

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 860-132020 recovered above the upper control limit for Trichlorofluoromethane (25.7%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-132020/2).

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 860-132020 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270E_LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-132355 and analytical batch 860-132390 recovered outside control limits for the following analyte(s): 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, Aniline, p-Phenylene diamine and Pyridine. 2-Naphthylamine, 2-Picoline, 3,3'-Dimethylbenzidine, Aniline, p-Phenylene diamine and Pyridine have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method 8270E_LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-132355 and analytical batch 860-132390 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270E_LL: The method blank for preparation batch 860-132355 contained Pyridine above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8270E_LL: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 860-132355 and analytical batch 860-132390 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Diphenyl ether in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 8270E_LL: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-132922 and analytical batch 860-132899 recovered outside control limits for the following analyte(s): p-Phenylene diamine and 3,3'-Dimethylbenzidine.): p-Phenylene diamine and 3,3'-Dimethylbenzidine have been identified as a poor performing analyte when

Case Narrative

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Job ID: 860-61897-1 (Continued)

Laboratory: Eurofins Houston (Continued)

analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270E_LL: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-132922 and analytical batch 860-132899 recovered outside control limits for the following analytes: 2-Picoline and Pyridine.

Method 8270E_LL: The following samples were re-prepared outside of preparation holding time due to method blank contamination in the first run: MW-32-D (860-61897-5), MW-30-S (860-61897-6) and MW-33-S (860-61897-9).

Method 8270E_LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-33-S (860-61897-9). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: Pyridine was detected above the method detection limit (MDL) in the method blank associated with preparation batch 860-132355 and analytical batch 860-132390 as well as in the following sample: (MB 860-132355/1-A). All affected samples were re-extracted and/or re-analyzed outside of holding time. Both sets of data have been reported.

Method 8270E_LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-132355 and analytical batch 860-132390 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270E_LL: The following samples were diluted due to the nature of the sample matrix: MW-33-S (860-61897-9[MS]) and MW-33-S (860-61897-9[MSD]). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: The following samples were re-prepared outside of preparation holding time due to method blank contaminated in the first extraction: MW-32-S (860-61897-3), MW-31-D (860-61897-4), MW-27-S (860-61897-7) and MW-27-D (860-61897-8).

Method 8270E_LL: Pyridine was detected above the method detection limit (MDL) in the method blank associated with preparation batch 860-132922 and analytical batch 860-132899 as well as in the following sample: (MB 860-132922/1-A). All affected samples were re-extracted and re-analyzed outside of holding time. Both sets of data have been reported.

Method 8270E_LL: The following sample required a dilution due to the nature of the sample matrix: MW-33-S (860-61897-9). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E_LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-33-S (860-61897-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: TB11(111523)

Lab Sample ID: 860-61897-1

No Detections.

Client Sample ID: MW-31-S

Lab Sample ID: 860-61897-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diphenyl ether	0.461	J	8.00	0.364	ug/L	1		8270E LL	Total/NA
Pyridine	1.63	J B *1	2.00	0.725	ug/L	1		8270E LL	Total/NA

Client Sample ID: MW-32-S

Lab Sample ID: 860-61897-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	1.01	J B *1	2.00	0.725	ug/L	1		8270E LL	Total/NA

Client Sample ID: MW-31-D

Lab Sample ID: 860-61897-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	1.07	J B *1	2.00	0.725	ug/L	1		8270E LL	Total/NA

Client Sample ID: MW-32-D

Lab Sample ID: 860-61897-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	1.49	J B *1	2.00	0.725	ug/L	1		8270E LL	Total/NA

Client Sample ID: MW-30-S

Lab Sample ID: 860-61897-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1'-Biphenyl	0.440	J	2.00	0.428	ug/L	1		8270E LL	Total/NA
Diphenyl ether	1.50	J	8.00	0.364	ug/L	1		8270E LL	Total/NA
Pyridine	1.31	J B *1	2.00	0.725	ug/L	1		8270E LL	Total/NA

Client Sample ID: MW-27-S

Lab Sample ID: 860-61897-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	1.38	J B *1	2.00	0.725	ug/L	1		8270E LL	Total/NA

Client Sample ID: MW-27-D

Lab Sample ID: 860-61897-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	2.03	B *1	2.00	0.725	ug/L	1		8270E LL	Total/NA

Client Sample ID: MW-33-S

Lab Sample ID: 860-61897-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1'-Biphenyl	0.938	J	2.00	0.428	ug/L	1		8270E LL	Total/NA
2-Methylnaphthalene	0.775	J	2.00	0.480	ug/L	1		8270E LL	Total/NA
Naphthalene	0.868	J	2.00	0.423	ug/L	1		8270E LL	Total/NA
Phenol	0.653	J	4.00	0.202	ug/L	1		8270E LL	Total/NA
Pyridine	1.45	J B *1	2.00	0.725	ug/L	1		8270E LL	Total/NA
Diphenyl ether - DL	320		80.0	3.64	ug/L	10		8270E LL	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: TB11(111523)

Lab Sample ID: 860-61897-1

Date Collected: 11/15/23 00:00

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/21/23 14:20	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/21/23 14:20	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/21/23 14:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/21/23 14:20	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/21/23 14:20	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/21/23 14:20	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/21/23 14:20	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/21/23 14:20	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/21/23 14:20	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/21/23 14:20	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/21/23 14:20	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/21/23 14:20	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/21/23 14:20	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/21/23 14:20	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/21/23 14:20	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/21/23 14:20	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/21/23 14:20	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/21/23 14:20	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/21/23 14:20	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/21/23 14:20	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/21/23 14:20	1
Acetone	<3.07	U	100	3.07	ug/L			11/21/23 14:20	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/21/23 14:20	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/21/23 14:20	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/21/23 14:20	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/21/23 14:20	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/21/23 14:20	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/21/23 14:20	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/21/23 14:20	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/21/23 14:20	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/21/23 14:20	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/21/23 14:20	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/21/23 14:20	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/21/23 14:20	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/21/23 14:20	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/21/23 14:20	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/21/23 14:20	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/21/23 14:20	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/21/23 14:20	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/21/23 14:20	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/21/23 14:20	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/21/23 14:20	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/21/23 14:20	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/21/23 14:20	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/21/23 14:20	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/21/23 14:20	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/21/23 14:20	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/21/23 14:20	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/21/23 14:20	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: TB11(111523)

Lab Sample ID: 860-61897-1

Date Collected: 11/15/23 00:00

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/21/23 14:20	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/21/23 14:20	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/21/23 14:20	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/21/23 14:20	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/21/23 14:20	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/21/23 14:20	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/21/23 14:20	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/21/23 14:20	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/21/23 14:20	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/21/23 14:20	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/21/23 14:20	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/21/23 14:20	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/21/23 14:20	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/21/23 14:20	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/21/23 14:20	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/21/23 14:20	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/21/23 14:20	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/21/23 14:20	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/21/23 14:20	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/21/23 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		11/21/23 14:20	1
4-Bromofluorobenzene (Surr)	100		74 - 124		11/21/23 14:20	1
Dibromofluoromethane (Surr)	105		75 - 131		11/21/23 14:20	1
Toluene-d8 (Surr)	99		80 - 120		11/21/23 14:20	1

Client Sample ID: MW-31-S

Lab Sample ID: 860-61897-2

Date Collected: 11/15/23 09:04

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/21/23 18:26	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/21/23 18:26	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/21/23 18:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/21/23 18:26	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/21/23 18:26	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/21/23 18:26	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/21/23 18:26	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/21/23 18:26	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/21/23 18:26	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/21/23 18:26	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/21/23 18:26	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/21/23 18:26	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/21/23 18:26	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/21/23 18:26	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/21/23 18:26	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/21/23 18:26	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/21/23 18:26	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-31-S

Lab Sample ID: 860-61897-2

Date Collected: 11/15/23 09:04

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/21/23 18:26	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/21/23 18:26	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/21/23 18:26	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/21/23 18:26	1
Acetone	<3.07	U	100	3.07	ug/L			11/21/23 18:26	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/21/23 18:26	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/21/23 18:26	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/21/23 18:26	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/21/23 18:26	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/21/23 18:26	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/21/23 18:26	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/21/23 18:26	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/21/23 18:26	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/21/23 18:26	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/21/23 18:26	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/21/23 18:26	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/21/23 18:26	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/21/23 18:26	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/21/23 18:26	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/21/23 18:26	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/21/23 18:26	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/21/23 18:26	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/21/23 18:26	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/21/23 18:26	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/21/23 18:26	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/21/23 18:26	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/21/23 18:26	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/21/23 18:26	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/21/23 18:26	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/21/23 18:26	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/21/23 18:26	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/21/23 18:26	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/21/23 18:26	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/21/23 18:26	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/21/23 18:26	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/21/23 18:26	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/21/23 18:26	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/21/23 18:26	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/21/23 18:26	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/21/23 18:26	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/21/23 18:26	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/21/23 18:26	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/21/23 18:26	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/21/23 18:26	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/21/23 18:26	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/21/23 18:26	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/21/23 18:26	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/21/23 18:26	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/21/23 18:26	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-31-S

Lab Sample ID: 860-61897-2

Date Collected: 11/15/23 09:04

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/21/23 18:26	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/21/23 18:26	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/21/23 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144					11/21/23 18:26	1
4-Bromofluorobenzene (Surr)	100		74 - 124					11/21/23 18:26	1
Dibromofluoromethane (Surr)	105		75 - 131					11/21/23 18:26	1
Toluene-d8 (Surr)	98		80 - 120					11/21/23 18:26	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 14:39	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/27/23 14:39	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/27/23 14:39	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/22/23 13:06	11/27/23 14:39	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/27/23 14:39	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/27/23 14:39	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/27/23 14:39	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 14:39	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/27/23 14:39	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 14:39	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/27/23 14:39	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/27/23 14:39	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/27/23 14:39	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 14:39	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/27/23 14:39	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 14:39	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/27/23 14:39	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/27/23 14:39	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 14:39	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 14:39	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/27/23 14:39	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/27/23 14:39	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/27/23 14:39	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/22/23 13:06	11/27/23 14:39	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 14:39	1
2-Naphthylamine	<0.595	U *-	8.00	0.595	ug/L		11/22/23 13:06	11/27/23 14:39	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/27/23 14:39	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 14:39	1
2-Picoline	<0.215	U *1	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 14:39	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/27/23 14:39	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/27/23 14:39	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/27/23 14:39	1
3,3'-Dimethylbenzidine	<0.444	U *- *1	8.00	0.444	ug/L		11/22/23 13:06	11/27/23 14:39	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/27/23 14:39	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/27/23 14:39	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/27/23 14:39	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/27/23 14:39	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/27/23 14:39	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-31-S

Lab Sample ID: 860-61897-2

Date Collected: 11/15/23 09:04

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/27/23 14:39	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/27/23 14:39	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 14:39	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/27/23 14:39	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/27/23 14:39	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/27/23 14:39	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/27/23 14:39	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 14:39	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/22/23 13:06	11/27/23 14:39	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/27/23 14:39	1
Aniline	<0.314	U *1	4.00	0.314	ug/L		11/22/23 13:06	11/27/23 14:39	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/27/23 14:39	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 14:39	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 14:39	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 14:39	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/27/23 14:39	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 14:39	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/27/23 14:39	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/27/23 14:39	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/27/23 14:39	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/27/23 14:39	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/27/23 14:39	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 14:39	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 14:39	1
Diallylate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 14:39	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 14:39	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/22/23 13:06	11/27/23 14:39	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/27/23 14:39	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/27/23 14:39	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 14:39	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/27/23 14:39	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/27/23 14:39	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/27/23 14:39	1
Diphenyl ether	0.461	J	8.00	0.364	ug/L		11/22/23 13:06	11/27/23 14:39	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/27/23 14:39	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 14:39	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/27/23 14:39	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/27/23 14:39	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 14:39	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/27/23 14:39	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 14:39	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/27/23 14:39	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/27/23 14:39	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/22/23 13:06	11/27/23 14:39	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/27/23 14:39	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/27/23 14:39	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/27/23 14:39	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 14:39	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/27/23 14:39	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-31-S

Lab Sample ID: 860-61897-2

Date Collected: 11/15/23 09:04

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/27/23 14:39	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/27/23 14:39	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/22/23 13:06	11/27/23 14:39	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/27/23 14:39	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/27/23 14:39	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/27/23 14:39	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 14:39	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/27/23 14:39	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/27/23 14:39	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/27/23 14:39	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 14:39	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 14:39	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 14:39	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 14:39	1
o,o',o''-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 14:39	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 14:39	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/27/23 14:39	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/27/23 14:39	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/27/23 14:39	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/27/23 14:39	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/27/23 14:39	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/22/23 13:06	11/27/23 14:39	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/27/23 14:39	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/22/23 13:06	11/27/23 14:39	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/27/23 14:39	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 14:39	1
Pyridine	1.63	J B *	2.00	0.725	ug/L		11/22/23 13:06	11/27/23 14:39	1
Safrrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/27/23 14:39	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/27/23 14:39	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/27/23 14:39	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/27/23 14:39	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 14:39	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 14:39	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/22/23 13:06	11/27/23 14:39	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/27/23 14:39	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	56		31 - 132	11/22/23 13:06	11/27/23 14:39	1
2-Fluorobiphenyl	64		40 - 130	11/22/23 13:06	11/27/23 14:39	1
2-Fluorophenol (Surr)	41		21 - 114	11/22/23 13:06	11/27/23 14:39	1
Nitrobenzene-d5 (Surr)	59		37 - 130	11/22/23 13:06	11/27/23 14:39	1
Phenol-d5 (Surr)	25		16 - 117	11/22/23 13:06	11/27/23 14:39	1
p-Terphenyl-d14	99		20 - 141	11/22/23 13:06	11/27/23 14:39	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.154	U	0.588	0.154	ug/L		11/21/23 13:11	11/21/23 20:29	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-31-S

Lab Sample ID: 860-61897-2

Date Collected: 11/15/23 09:04

Matrix: Water

Date Received: 11/20/23 13:28

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	120		37 - 133	11/21/23 13:11	11/21/23 20:29	1

Client Sample ID: MW-32-S

Lab Sample ID: 860-61897-3

Date Collected: 11/15/23 09:07

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/21/23 16:02	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/21/23 16:02	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/21/23 16:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/21/23 16:02	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/21/23 16:02	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/21/23 16:02	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/21/23 16:02	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/21/23 16:02	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/21/23 16:02	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/21/23 16:02	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/21/23 16:02	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/21/23 16:02	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/21/23 16:02	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/21/23 16:02	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/21/23 16:02	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/21/23 16:02	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/21/23 16:02	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/21/23 16:02	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/21/23 16:02	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/21/23 16:02	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/21/23 16:02	1
Acetone	<3.07	U	100	3.07	ug/L			11/21/23 16:02	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/21/23 16:02	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/21/23 16:02	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/21/23 16:02	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/21/23 16:02	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/21/23 16:02	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/21/23 16:02	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/21/23 16:02	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/21/23 16:02	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/21/23 16:02	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/21/23 16:02	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/21/23 16:02	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/21/23 16:02	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/21/23 16:02	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/21/23 16:02	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/21/23 16:02	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/21/23 16:02	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/21/23 16:02	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/21/23 16:02	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/21/23 16:02	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/21/23 16:02	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-32-S

Lab Sample ID: 860-61897-3

Date Collected: 11/15/23 09:07

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/21/23 16:02	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/21/23 16:02	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/21/23 16:02	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/21/23 16:02	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/21/23 16:02	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/21/23 16:02	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/21/23 16:02	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/21/23 16:02	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/21/23 16:02	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/21/23 16:02	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/21/23 16:02	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/21/23 16:02	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/21/23 16:02	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/21/23 16:02	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/21/23 16:02	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/21/23 16:02	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/21/23 16:02	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/21/23 16:02	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/21/23 16:02	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/21/23 16:02	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/21/23 16:02	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/21/23 16:02	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/21/23 16:02	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/21/23 16:02	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/21/23 16:02	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/21/23 16:02	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/21/23 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		11/21/23 16:02	1
4-Bromofluorobenzene (Surr)	101		74 - 124		11/21/23 16:02	1
Dibromofluoromethane (Surr)	106		75 - 131		11/21/23 16:02	1
Toluene-d8 (Surr)	98		80 - 120		11/21/23 16:02	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 14:59	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/27/23 14:59	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/27/23 14:59	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/22/23 13:06	11/27/23 14:59	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/27/23 14:59	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/27/23 14:59	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/27/23 14:59	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 14:59	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/27/23 14:59	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 14:59	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/27/23 14:59	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/27/23 14:59	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/27/23 14:59	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 14:59	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-32-S

Lab Sample ID: 860-61897-3

Date Collected: 11/15/23 09:07

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/27/23 14:59	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 14:59	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/27/23 14:59	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/27/23 14:59	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 14:59	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 14:59	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/27/23 14:59	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/27/23 14:59	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/27/23 14:59	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/22/23 13:06	11/27/23 14:59	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 14:59	1
2-Naphthylamine	<0.595	U *	8.00	0.595	ug/L		11/22/23 13:06	11/27/23 14:59	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/27/23 14:59	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 14:59	1
2-Picoline	<0.215	U *	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 14:59	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/27/23 14:59	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/27/23 14:59	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/27/23 14:59	1
3,3'-Dimethylbenzidine	<0.444	U * *	8.00	0.444	ug/L		11/22/23 13:06	11/27/23 14:59	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/27/23 14:59	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/27/23 14:59	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/27/23 14:59	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/27/23 14:59	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/27/23 14:59	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/27/23 14:59	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/27/23 14:59	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 14:59	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/27/23 14:59	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/27/23 14:59	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/27/23 14:59	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/27/23 14:59	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 14:59	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/22/23 13:06	11/27/23 14:59	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/27/23 14:59	1
Aniline	<0.314	U *	4.00	0.314	ug/L		11/22/23 13:06	11/27/23 14:59	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/27/23 14:59	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 14:59	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 14:59	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 14:59	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/27/23 14:59	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 14:59	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/27/23 14:59	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/27/23 14:59	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/27/23 14:59	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/27/23 14:59	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/27/23 14:59	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 14:59	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 14:59	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 14:59	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-32-S

Lab Sample ID: 860-61897-3

Date Collected: 11/15/23 09:07

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 14:59	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/22/23 13:06	11/27/23 14:59	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/27/23 14:59	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/27/23 14:59	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 14:59	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/27/23 14:59	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/27/23 14:59	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/27/23 14:59	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/22/23 13:06	11/27/23 14:59	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/27/23 14:59	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 14:59	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/27/23 14:59	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/27/23 14:59	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 14:59	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/27/23 14:59	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 14:59	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/27/23 14:59	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/27/23 14:59	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/22/23 13:06	11/27/23 14:59	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/27/23 14:59	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/27/23 14:59	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/27/23 14:59	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 14:59	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/27/23 14:59	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/27/23 14:59	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/27/23 14:59	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/22/23 13:06	11/27/23 14:59	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/27/23 14:59	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/27/23 14:59	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/27/23 14:59	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 14:59	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/27/23 14:59	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/27/23 14:59	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/27/23 14:59	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 14:59	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 14:59	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 14:59	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 14:59	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 14:59	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 14:59	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/27/23 14:59	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/27/23 14:59	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/27/23 14:59	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/27/23 14:59	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/27/23 14:59	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/22/23 13:06	11/27/23 14:59	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/27/23 14:59	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/22/23 13:06	11/27/23 14:59	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/27/23 14:59	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-32-S

Lab Sample ID: 860-61897-3

Date Collected: 11/15/23 09:07

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 14:59	1
Pyridine	1.01	J B *1	2.00	0.725	ug/L		11/22/23 13:06	11/27/23 14:59	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/27/23 14:59	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/27/23 14:59	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/27/23 14:59	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/27/23 14:59	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 14:59	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 14:59	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/22/23 13:06	11/27/23 14:59	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/27/23 14:59	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	65		31 - 132	11/22/23 13:06	11/27/23 14:59	1
2-Fluorobiphenyl	64		40 - 130	11/22/23 13:06	11/27/23 14:59	1
2-Fluorophenol (Surr)	41		21 - 114	11/22/23 13:06	11/27/23 14:59	1
Nitrobenzene-d5 (Surr)	61		37 - 130	11/22/23 13:06	11/27/23 14:59	1
Phenol-d5 (Surr)	22		16 - 117	11/22/23 13:06	11/27/23 14:59	1
p-Terphenyl-d14	102		20 - 141	11/22/23 13:06	11/27/23 14:59	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.154	U	0.587	0.154	ug/L		11/21/23 13:11	11/21/23 20:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	133		37 - 133				11/21/23 13:11	11/21/23 20:59	1

Client Sample ID: MW-31-D

Lab Sample ID: 860-61897-4

Date Collected: 11/15/23 09:56

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/21/23 18:46	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/21/23 18:46	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/21/23 18:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/21/23 18:46	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/21/23 18:46	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/21/23 18:46	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/21/23 18:46	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/21/23 18:46	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/21/23 18:46	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/21/23 18:46	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/21/23 18:46	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/21/23 18:46	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/21/23 18:46	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/21/23 18:46	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/21/23 18:46	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/21/23 18:46	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/21/23 18:46	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/21/23 18:46	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-31-D

Lab Sample ID: 860-61897-4

Date Collected: 11/15/23 09:56

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/21/23 18:46	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/21/23 18:46	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/21/23 18:46	1
Acetone	<3.07	U	100	3.07	ug/L			11/21/23 18:46	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/21/23 18:46	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/21/23 18:46	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/21/23 18:46	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/21/23 18:46	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/21/23 18:46	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/21/23 18:46	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/21/23 18:46	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/21/23 18:46	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/21/23 18:46	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/21/23 18:46	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/21/23 18:46	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/21/23 18:46	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/21/23 18:46	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/21/23 18:46	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/21/23 18:46	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/21/23 18:46	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/21/23 18:46	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/21/23 18:46	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/21/23 18:46	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/21/23 18:46	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/21/23 18:46	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/21/23 18:46	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/21/23 18:46	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/21/23 18:46	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/21/23 18:46	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/21/23 18:46	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/21/23 18:46	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/21/23 18:46	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/21/23 18:46	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/21/23 18:46	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/21/23 18:46	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/21/23 18:46	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/21/23 18:46	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/21/23 18:46	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/21/23 18:46	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/21/23 18:46	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/21/23 18:46	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/21/23 18:46	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/21/23 18:46	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/21/23 18:46	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/21/23 18:46	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/21/23 18:46	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/21/23 18:46	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/21/23 18:46	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/21/23 18:46	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-31-D

Lab Sample ID: 860-61897-4

Date Collected: 11/15/23 09:56

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/21/23 18:46	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/21/23 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144					11/21/23 18:46	1
4-Bromofluorobenzene (Surr)	101		74 - 124					11/21/23 18:46	1
Dibromofluoromethane (Surr)	104		75 - 131					11/21/23 18:46	1
Toluene-d8 (Surr)	99		80 - 120					11/21/23 18:46	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 15:20	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/27/23 15:20	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/27/23 15:20	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/22/23 13:06	11/27/23 15:20	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/27/23 15:20	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/27/23 15:20	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/27/23 15:20	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 15:20	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/27/23 15:20	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 15:20	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/27/23 15:20	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/27/23 15:20	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/27/23 15:20	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 15:20	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/27/23 15:20	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 15:20	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/27/23 15:20	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/27/23 15:20	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 15:20	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 15:20	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/27/23 15:20	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/27/23 15:20	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/27/23 15:20	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/22/23 13:06	11/27/23 15:20	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 15:20	1
2-Naphthylamine	<0.595	U *-	8.00	0.595	ug/L		11/22/23 13:06	11/27/23 15:20	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/27/23 15:20	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 15:20	1
2-Picoline	<0.215	U *1	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 15:20	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/27/23 15:20	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/27/23 15:20	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/27/23 15:20	1
3,3'-Dimethylbenzidine	<0.444	U *- *1	8.00	0.444	ug/L		11/22/23 13:06	11/27/23 15:20	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/27/23 15:20	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/27/23 15:20	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/27/23 15:20	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/27/23 15:20	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/27/23 15:20	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/27/23 15:20	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-31-D

Lab Sample ID: 860-61897-4

Date Collected: 11/15/23 09:56

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/27/23 15:20	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 15:20	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/27/23 15:20	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/27/23 15:20	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/27/23 15:20	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/27/23 15:20	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 15:20	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/22/23 13:06	11/27/23 15:20	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/27/23 15:20	1
Aniline	<0.314	U *1	4.00	0.314	ug/L		11/22/23 13:06	11/27/23 15:20	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/27/23 15:20	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 15:20	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 15:20	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 15:20	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/27/23 15:20	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 15:20	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/27/23 15:20	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/27/23 15:20	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/27/23 15:20	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/27/23 15:20	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/27/23 15:20	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 15:20	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 15:20	1
Diallylate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 15:20	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 15:20	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/22/23 13:06	11/27/23 15:20	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/27/23 15:20	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/27/23 15:20	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 15:20	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/27/23 15:20	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/27/23 15:20	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/27/23 15:20	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/22/23 13:06	11/27/23 15:20	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/27/23 15:20	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 15:20	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/27/23 15:20	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/27/23 15:20	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 15:20	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/27/23 15:20	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 15:20	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/27/23 15:20	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/27/23 15:20	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/22/23 13:06	11/27/23 15:20	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/27/23 15:20	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/27/23 15:20	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/27/23 15:20	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 15:20	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/27/23 15:20	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/27/23 15:20	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-31-D

Lab Sample ID: 860-61897-4

Date Collected: 11/15/23 09:56

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/27/23 15:20	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/22/23 13:06	11/27/23 15:20	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/27/23 15:20	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/27/23 15:20	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/27/23 15:20	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 15:20	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/27/23 15:20	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/27/23 15:20	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/27/23 15:20	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 15:20	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 15:20	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 15:20	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 15:20	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 15:20	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 15:20	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/27/23 15:20	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/27/23 15:20	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/27/23 15:20	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/27/23 15:20	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/27/23 15:20	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/22/23 13:06	11/27/23 15:20	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/27/23 15:20	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/22/23 13:06	11/27/23 15:20	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/27/23 15:20	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 15:20	1
Pyridine	1.07	J B *1	2.00	0.725	ug/L		11/22/23 13:06	11/27/23 15:20	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/27/23 15:20	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/27/23 15:20	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/27/23 15:20	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/27/23 15:20	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 15:20	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 15:20	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/22/23 13:06	11/27/23 15:20	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/27/23 15:20	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		31 - 132	11/22/23 13:06	11/27/23 15:20	1
2-Fluorobiphenyl	65		40 - 130	11/22/23 13:06	11/27/23 15:20	1
2-Fluorophenol (Surr)	41		21 - 114	11/22/23 13:06	11/27/23 15:20	1
Nitrobenzene-d5 (Surr)	59		37 - 130	11/22/23 13:06	11/27/23 15:20	1
Phenol-d5 (Surr)	24		16 - 117	11/22/23 13:06	11/27/23 15:20	1
p-Terphenyl-d14	95		20 - 141	11/22/23 13:06	11/27/23 15:20	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.146	U	0.557	0.146	ug/L		11/21/23 13:11	11/21/23 21:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	127		37 - 133	11/21/23 13:11	11/21/23 21:28	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-32-D

Lab Sample ID: 860-61897-5

Date Collected: 11/15/23 10:00

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/21/23 15:42	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/21/23 15:42	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/21/23 15:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/21/23 15:42	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/21/23 15:42	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/21/23 15:42	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/21/23 15:42	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/21/23 15:42	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/21/23 15:42	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/21/23 15:42	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/21/23 15:42	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/21/23 15:42	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/21/23 15:42	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/21/23 15:42	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/21/23 15:42	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/21/23 15:42	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/21/23 15:42	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/21/23 15:42	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/21/23 15:42	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/21/23 15:42	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/21/23 15:42	1
Acetone	<3.07	U	100	3.07	ug/L			11/21/23 15:42	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/21/23 15:42	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/21/23 15:42	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/21/23 15:42	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/21/23 15:42	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/21/23 15:42	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/21/23 15:42	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/21/23 15:42	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/21/23 15:42	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/21/23 15:42	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/21/23 15:42	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/21/23 15:42	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/21/23 15:42	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/21/23 15:42	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/21/23 15:42	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/21/23 15:42	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/21/23 15:42	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/21/23 15:42	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/21/23 15:42	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/21/23 15:42	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/21/23 15:42	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/21/23 15:42	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/21/23 15:42	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/21/23 15:42	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/21/23 15:42	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/21/23 15:42	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/21/23 15:42	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/21/23 15:42	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-32-D

Lab Sample ID: 860-61897-5

Date Collected: 11/15/23 10:00

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/21/23 15:42	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/21/23 15:42	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/21/23 15:42	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/21/23 15:42	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/21/23 15:42	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/21/23 15:42	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/21/23 15:42	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/21/23 15:42	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/21/23 15:42	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/21/23 15:42	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/21/23 15:42	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/21/23 15:42	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/21/23 15:42	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/21/23 15:42	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/21/23 15:42	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/21/23 15:42	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/21/23 15:42	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/21/23 15:42	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/21/23 15:42	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/21/23 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		11/21/23 15:42	1
4-Bromofluorobenzene (Surr)	104		74 - 124		11/21/23 15:42	1
Dibromofluoromethane (Surr)	106		75 - 131		11/21/23 15:42	1
Toluene-d8 (Surr)	99		80 - 120		11/21/23 15:42	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 15:41	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/27/23 15:41	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/27/23 15:41	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/22/23 13:06	11/27/23 15:41	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/27/23 15:41	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/27/23 15:41	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/27/23 15:41	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 15:41	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/27/23 15:41	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 15:41	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/27/23 15:41	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/27/23 15:41	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/27/23 15:41	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 15:41	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/27/23 15:41	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 15:41	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/27/23 15:41	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/27/23 15:41	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 15:41	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 15:41	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/27/23 15:41	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-32-D

Lab Sample ID: 860-61897-5

Date Collected: 11/15/23 10:00

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/27/23 15:41	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/27/23 15:41	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/22/23 13:06	11/27/23 15:41	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 15:41	1
2-Naphthylamine	<0.595	U *	8.00	0.595	ug/L		11/22/23 13:06	11/27/23 15:41	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/27/23 15:41	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 15:41	1
2-Picoline	<0.215	U *	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 15:41	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/27/23 15:41	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/27/23 15:41	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/27/23 15:41	1
3,3'-Dimethylbenzidine	<0.444	U *	8.00	0.444	ug/L		11/22/23 13:06	11/27/23 15:41	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/27/23 15:41	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/27/23 15:41	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/27/23 15:41	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/27/23 15:41	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/27/23 15:41	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/27/23 15:41	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/27/23 15:41	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 15:41	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/27/23 15:41	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/27/23 15:41	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/27/23 15:41	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/27/23 15:41	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 15:41	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/22/23 13:06	11/27/23 15:41	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/27/23 15:41	1
Aniline	<0.314	U *	4.00	0.314	ug/L		11/22/23 13:06	11/27/23 15:41	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/27/23 15:41	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 15:41	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 15:41	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 15:41	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/27/23 15:41	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 15:41	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/27/23 15:41	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/27/23 15:41	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/27/23 15:41	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/27/23 15:41	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/27/23 15:41	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 15:41	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 15:41	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 15:41	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 15:41	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/22/23 13:06	11/27/23 15:41	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/27/23 15:41	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/27/23 15:41	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 15:41	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/27/23 15:41	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/27/23 15:41	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-32-D

Lab Sample ID: 860-61897-5

Date Collected: 11/15/23 10:00

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/27/23 15:41	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/22/23 13:06	11/27/23 15:41	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/27/23 15:41	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 15:41	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/27/23 15:41	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/27/23 15:41	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 15:41	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/27/23 15:41	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 15:41	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/27/23 15:41	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/27/23 15:41	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/22/23 13:06	11/27/23 15:41	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/27/23 15:41	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/27/23 15:41	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/27/23 15:41	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 15:41	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/27/23 15:41	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/27/23 15:41	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/27/23 15:41	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/22/23 13:06	11/27/23 15:41	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/27/23 15:41	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/27/23 15:41	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/27/23 15:41	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 15:41	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/27/23 15:41	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/27/23 15:41	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/27/23 15:41	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 15:41	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 15:41	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 15:41	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 15:41	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 15:41	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 15:41	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/27/23 15:41	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/27/23 15:41	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/27/23 15:41	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/27/23 15:41	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/27/23 15:41	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/22/23 13:06	11/27/23 15:41	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/27/23 15:41	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/22/23 13:06	11/27/23 15:41	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/27/23 15:41	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 15:41	1
Pyridine	1.49	J B *1	2.00	0.725	ug/L		11/22/23 13:06	11/27/23 15:41	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/27/23 15:41	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/27/23 15:41	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/27/23 15:41	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/27/23 15:41	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 15:41	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-32-D

Lab Sample ID: 860-61897-5

Date Collected: 11/15/23 10:00

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 15:41	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/22/23 13:06	11/27/23 15:41	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/27/23 15:41	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 15:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	55		31 - 132				11/22/23 13:06	11/27/23 15:41	1
2-Fluorobiphenyl	69		40 - 130				11/22/23 13:06	11/27/23 15:41	1
2-Fluorophenol (Surr)	44		21 - 114				11/22/23 13:06	11/27/23 15:41	1
Nitrobenzene-d5 (Surr)	59		37 - 130				11/22/23 13:06	11/27/23 15:41	1
Phenol-d5 (Surr)	23		16 - 117				11/22/23 13:06	11/27/23 15:41	1
p-Terphenyl-d14	95		20 - 141				11/22/23 13:06	11/27/23 15:41	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.152	U	0.580	0.152	ug/L		11/21/23 13:11	11/21/23 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	99		37 - 133				11/21/23 13:11	11/21/23 21:58	1

Client Sample ID: MW-30-S

Lab Sample ID: 860-61897-6

Date Collected: 11/15/23 11:18

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/21/23 19:07	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/21/23 19:07	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/21/23 19:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/21/23 19:07	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/21/23 19:07	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/21/23 19:07	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/21/23 19:07	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/21/23 19:07	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/21/23 19:07	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/21/23 19:07	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/21/23 19:07	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/21/23 19:07	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/21/23 19:07	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/21/23 19:07	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/21/23 19:07	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/21/23 19:07	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/21/23 19:07	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/21/23 19:07	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/21/23 19:07	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/21/23 19:07	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/21/23 19:07	1
Acetone	<3.07	U	100	3.07	ug/L			11/21/23 19:07	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/21/23 19:07	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/21/23 19:07	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/21/23 19:07	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-30-S

Lab Sample ID: 860-61897-6

Date Collected: 11/15/23 11:18

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/21/23 19:07	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/21/23 19:07	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/21/23 19:07	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/21/23 19:07	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/21/23 19:07	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/21/23 19:07	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/21/23 19:07	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/21/23 19:07	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/21/23 19:07	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/21/23 19:07	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/21/23 19:07	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/21/23 19:07	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/21/23 19:07	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/21/23 19:07	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/21/23 19:07	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/21/23 19:07	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/21/23 19:07	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/21/23 19:07	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/21/23 19:07	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/21/23 19:07	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/21/23 19:07	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/21/23 19:07	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/21/23 19:07	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/21/23 19:07	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/21/23 19:07	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/21/23 19:07	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/21/23 19:07	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/21/23 19:07	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/21/23 19:07	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/21/23 19:07	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/21/23 19:07	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/21/23 19:07	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/21/23 19:07	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/21/23 19:07	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/21/23 19:07	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/21/23 19:07	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/21/23 19:07	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/21/23 19:07	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/21/23 19:07	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/21/23 19:07	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/21/23 19:07	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/21/23 19:07	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/21/23 19:07	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/21/23 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		11/21/23 19:07	1
4-Bromofluorobenzene (Surr)	102		74 - 124		11/21/23 19:07	1
Dibromofluoromethane (Surr)	105		75 - 131		11/21/23 19:07	1
Toluene-d8 (Surr)	99		80 - 120		11/21/23 19:07	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-30-S

Lab Sample ID: 860-61897-6

Date Collected: 11/15/23 11:18

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.440	J	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 16:02	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/27/23 16:02	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/27/23 16:02	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/22/23 13:06	11/27/23 16:02	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/27/23 16:02	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/27/23 16:02	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/27/23 16:02	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 16:02	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/27/23 16:02	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 16:02	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/27/23 16:02	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/27/23 16:02	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/27/23 16:02	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 16:02	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/27/23 16:02	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 16:02	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/27/23 16:02	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/27/23 16:02	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 16:02	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 16:02	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/27/23 16:02	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/27/23 16:02	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/27/23 16:02	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/22/23 13:06	11/27/23 16:02	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 16:02	1
2-Naphthylamine	<0.595	U *	8.00	0.595	ug/L		11/22/23 13:06	11/27/23 16:02	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/27/23 16:02	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 16:02	1
2-Picoline	<0.215	U *1	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 16:02	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/27/23 16:02	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/27/23 16:02	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/27/23 16:02	1
3,3'-Dimethylbenzidine	<0.444	U * - *1	8.00	0.444	ug/L		11/22/23 13:06	11/27/23 16:02	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/27/23 16:02	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/27/23 16:02	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/27/23 16:02	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/27/23 16:02	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/27/23 16:02	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/27/23 16:02	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/27/23 16:02	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 16:02	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/27/23 16:02	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/27/23 16:02	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/27/23 16:02	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/27/23 16:02	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 16:02	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/22/23 13:06	11/27/23 16:02	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/27/23 16:02	1
Aniline	<0.314	U *1	4.00	0.314	ug/L		11/22/23 13:06	11/27/23 16:02	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-30-S

Lab Sample ID: 860-61897-6

Date Collected: 11/15/23 11:18

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/27/23 16:02	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 16:02	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 16:02	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 16:02	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/27/23 16:02	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 16:02	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/27/23 16:02	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/27/23 16:02	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/27/23 16:02	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/27/23 16:02	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/27/23 16:02	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 16:02	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 16:02	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 16:02	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 16:02	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/22/23 13:06	11/27/23 16:02	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/27/23 16:02	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/27/23 16:02	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 16:02	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/27/23 16:02	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/27/23 16:02	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/27/23 16:02	1
Diphenyl ether	1.50	J	8.00	0.364	ug/L		11/22/23 13:06	11/27/23 16:02	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/27/23 16:02	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 16:02	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/27/23 16:02	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/27/23 16:02	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 16:02	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/27/23 16:02	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 16:02	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/27/23 16:02	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/27/23 16:02	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/22/23 13:06	11/27/23 16:02	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/27/23 16:02	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/27/23 16:02	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/27/23 16:02	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 16:02	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/27/23 16:02	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/27/23 16:02	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/27/23 16:02	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/22/23 13:06	11/27/23 16:02	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/27/23 16:02	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/27/23 16:02	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/27/23 16:02	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 16:02	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/27/23 16:02	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/27/23 16:02	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/27/23 16:02	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 16:02	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-30-S

Lab Sample ID: 860-61897-6

Date Collected: 11/15/23 11:18

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 16:02	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 16:02	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 16:02	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 16:02	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 16:02	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/27/23 16:02	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/27/23 16:02	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/27/23 16:02	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/27/23 16:02	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/27/23 16:02	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/22/23 13:06	11/27/23 16:02	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/27/23 16:02	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/22/23 13:06	11/27/23 16:02	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/27/23 16:02	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 16:02	1
Pyridine	1.31	J B *	2.00	0.725	ug/L		11/22/23 13:06	11/27/23 16:02	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/27/23 16:02	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/27/23 16:02	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/27/23 16:02	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/27/23 16:02	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 16:02	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 16:02	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/22/23 13:06	11/27/23 16:02	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/27/23 16:02	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	61		31 - 132	11/22/23 13:06	11/27/23 16:02	1
2-Fluorobiphenyl	67		40 - 130	11/22/23 13:06	11/27/23 16:02	1
2-Fluorophenol (Surr)	40		21 - 114	11/22/23 13:06	11/27/23 16:02	1
Nitrobenzene-d5 (Surr)	60		37 - 130	11/22/23 13:06	11/27/23 16:02	1
Phenol-d5 (Surr)	22		16 - 117	11/22/23 13:06	11/27/23 16:02	1
p-Terphenyl-d14	99		20 - 141	11/22/23 13:06	11/27/23 16:02	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.153	U	0.581	0.153	ug/L		11/21/23 13:11	11/21/23 22:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	116		37 - 133	11/21/23 13:11	11/21/23 22:28	1

Client Sample ID: MW-27-S

Lab Sample ID: 860-61897-7

Date Collected: 11/15/23 11:45

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/21/23 15:22	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/21/23 15:22	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/21/23 15:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/21/23 15:22	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-27-S

Lab Sample ID: 860-61897-7

Date Collected: 11/15/23 11:45

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/21/23 15:22	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/21/23 15:22	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/21/23 15:22	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/21/23 15:22	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/21/23 15:22	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/21/23 15:22	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/21/23 15:22	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/21/23 15:22	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/21/23 15:22	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/21/23 15:22	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/21/23 15:22	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/21/23 15:22	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/21/23 15:22	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/21/23 15:22	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/21/23 15:22	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/21/23 15:22	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/21/23 15:22	1
Acetone	<3.07	U	100	3.07	ug/L			11/21/23 15:22	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/21/23 15:22	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/21/23 15:22	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/21/23 15:22	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/21/23 15:22	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/21/23 15:22	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/21/23 15:22	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/21/23 15:22	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/21/23 15:22	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/21/23 15:22	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/21/23 15:22	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/21/23 15:22	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/21/23 15:22	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/21/23 15:22	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/21/23 15:22	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/21/23 15:22	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/21/23 15:22	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/21/23 15:22	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/21/23 15:22	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/21/23 15:22	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/21/23 15:22	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/21/23 15:22	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/21/23 15:22	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/21/23 15:22	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/21/23 15:22	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/21/23 15:22	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/21/23 15:22	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/21/23 15:22	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/21/23 15:22	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/21/23 15:22	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/21/23 15:22	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/21/23 15:22	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-27-S

Lab Sample ID: 860-61897-7

Date Collected: 11/15/23 11:45

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/21/23 15:22	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/21/23 15:22	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/21/23 15:22	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/21/23 15:22	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/21/23 15:22	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/21/23 15:22	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/21/23 15:22	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/21/23 15:22	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/21/23 15:22	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/21/23 15:22	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/21/23 15:22	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/21/23 15:22	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/21/23 15:22	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/21/23 15:22	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/21/23 15:22	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/21/23 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		11/21/23 15:22	1
4-Bromofluorobenzene (Surr)	102		74 - 124		11/21/23 15:22	1
Dibromofluoromethane (Surr)	105		75 - 131		11/21/23 15:22	1
Toluene-d8 (Surr)	100		80 - 120		11/21/23 15:22	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 16:23	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/27/23 16:23	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/27/23 16:23	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/22/23 13:06	11/27/23 16:23	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/27/23 16:23	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/27/23 16:23	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/27/23 16:23	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 16:23	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/27/23 16:23	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 16:23	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/27/23 16:23	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/27/23 16:23	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/27/23 16:23	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 16:23	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/27/23 16:23	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 16:23	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/27/23 16:23	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/27/23 16:23	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 16:23	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 16:23	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/27/23 16:23	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/27/23 16:23	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/27/23 16:23	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/22/23 13:06	11/27/23 16:23	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 16:23	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-27-S

Lab Sample ID: 860-61897-7

Date Collected: 11/15/23 11:45

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Naphthylamine	<0.595	U *	8.00	0.595	ug/L		11/22/23 13:06	11/27/23 16:23	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/27/23 16:23	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 16:23	1
2-Picoline	<0.215	U *1	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 16:23	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/27/23 16:23	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/27/23 16:23	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/27/23 16:23	1
3,3'-Dimethylbenzidine	<0.444	U * *1	8.00	0.444	ug/L		11/22/23 13:06	11/27/23 16:23	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/27/23 16:23	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/27/23 16:23	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/27/23 16:23	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/27/23 16:23	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/27/23 16:23	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/27/23 16:23	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/27/23 16:23	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 16:23	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/27/23 16:23	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/27/23 16:23	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/27/23 16:23	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/27/23 16:23	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 16:23	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/22/23 13:06	11/27/23 16:23	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/27/23 16:23	1
Aniline	<0.314	U *1	4.00	0.314	ug/L		11/22/23 13:06	11/27/23 16:23	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/27/23 16:23	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 16:23	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 16:23	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 16:23	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/27/23 16:23	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 16:23	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/27/23 16:23	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/27/23 16:23	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/27/23 16:23	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/27/23 16:23	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/27/23 16:23	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 16:23	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 16:23	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 16:23	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 16:23	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/22/23 13:06	11/27/23 16:23	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/27/23 16:23	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/27/23 16:23	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 16:23	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/27/23 16:23	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/27/23 16:23	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/27/23 16:23	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/22/23 13:06	11/27/23 16:23	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/27/23 16:23	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 16:23	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-27-S

Lab Sample ID: 860-61897-7

Date Collected: 11/15/23 11:45

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/27/23 16:23	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/27/23 16:23	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 16:23	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/27/23 16:23	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 16:23	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/27/23 16:23	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/27/23 16:23	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/22/23 13:06	11/27/23 16:23	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/27/23 16:23	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/27/23 16:23	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/27/23 16:23	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 16:23	1
Methapyriline	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/27/23 16:23	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/27/23 16:23	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/27/23 16:23	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/22/23 13:06	11/27/23 16:23	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/27/23 16:23	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/27/23 16:23	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/27/23 16:23	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 16:23	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/27/23 16:23	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/27/23 16:23	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/27/23 16:23	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 16:23	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 16:23	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 16:23	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 16:23	1
o,o',o''-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 16:23	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 16:23	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/27/23 16:23	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/27/23 16:23	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/27/23 16:23	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/27/23 16:23	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/27/23 16:23	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/22/23 13:06	11/27/23 16:23	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/27/23 16:23	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/22/23 13:06	11/27/23 16:23	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/27/23 16:23	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 16:23	1
Pyridine	1.38	J B *1	2.00	0.725	ug/L		11/22/23 13:06	11/27/23 16:23	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/27/23 16:23	1
Sulfotep	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/27/23 16:23	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/27/23 16:23	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/27/23 16:23	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 16:23	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 16:23	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/22/23 13:06	11/27/23 16:23	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/27/23 16:23	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 16:23	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-27-S

Lab Sample ID: 860-61897-7

Date Collected: 11/15/23 11:45

Matrix: Water

Date Received: 11/20/23 13:28

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		31 - 132	11/22/23 13:06	11/27/23 16:23	1
2-Fluorobiphenyl	73		40 - 130	11/22/23 13:06	11/27/23 16:23	1
2-Fluorophenol (Surr)	43		21 - 114	11/22/23 13:06	11/27/23 16:23	1
Nitrobenzene-d5 (Surr)	61		37 - 130	11/22/23 13:06	11/27/23 16:23	1
Phenol-d5 (Surr)	21		16 - 117	11/22/23 13:06	11/27/23 16:23	1
p-Terphenyl-d14	96		20 - 141	11/22/23 13:06	11/27/23 16:23	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.150	U	0.570	0.150	ug/L		11/21/23 13:11	11/22/23 13:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	124		37 - 133				11/21/23 13:11	11/22/23 13:23	1

Client Sample ID: MW-27-D

Lab Sample ID: 860-61897-8

Date Collected: 11/15/23 13:22

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/21/23 15:01	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/21/23 15:01	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/21/23 15:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/21/23 15:01	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/21/23 15:01	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/21/23 15:01	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/21/23 15:01	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/21/23 15:01	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/21/23 15:01	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/21/23 15:01	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/21/23 15:01	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/21/23 15:01	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/21/23 15:01	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/21/23 15:01	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/21/23 15:01	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/21/23 15:01	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/21/23 15:01	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/21/23 15:01	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/21/23 15:01	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/21/23 15:01	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/21/23 15:01	1
Acetone	<3.07	U	100	3.07	ug/L			11/21/23 15:01	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/21/23 15:01	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/21/23 15:01	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/21/23 15:01	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/21/23 15:01	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/21/23 15:01	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/21/23 15:01	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/21/23 15:01	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/21/23 15:01	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/21/23 15:01	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-27-D

Lab Sample ID: 860-61897-8

Date Collected: 11/15/23 13:22

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/21/23 15:01	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/21/23 15:01	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/21/23 15:01	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/21/23 15:01	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/21/23 15:01	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/21/23 15:01	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/21/23 15:01	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/21/23 15:01	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/21/23 15:01	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/21/23 15:01	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/21/23 15:01	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/21/23 15:01	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/21/23 15:01	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/21/23 15:01	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/21/23 15:01	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/21/23 15:01	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/21/23 15:01	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/21/23 15:01	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/21/23 15:01	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/21/23 15:01	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/21/23 15:01	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/21/23 15:01	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/21/23 15:01	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/21/23 15:01	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/21/23 15:01	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/21/23 15:01	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/21/23 15:01	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/21/23 15:01	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/21/23 15:01	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/21/23 15:01	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/21/23 15:01	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/21/23 15:01	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/21/23 15:01	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/21/23 15:01	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/21/23 15:01	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/21/23 15:01	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/21/23 15:01	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/21/23 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		11/21/23 15:01	1
4-Bromofluorobenzene (Surr)	104		74 - 124		11/21/23 15:01	1
Dibromofluoromethane (Surr)	106		75 - 131		11/21/23 15:01	1
Toluene-d8 (Surr)	99		80 - 120		11/21/23 15:01	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 16:44	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/27/23 16:44	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/27/23 16:44	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-27-D

Lab Sample ID: 860-61897-8

Date Collected: 11/15/23 13:22

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/22/23 13:06	11/27/23 16:44	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/27/23 16:44	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/27/23 16:44	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/27/23 16:44	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/27/23 16:44	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/27/23 16:44	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 16:44	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/27/23 16:44	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/27/23 16:44	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/27/23 16:44	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 16:44	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/27/23 16:44	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 16:44	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/27/23 16:44	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/27/23 16:44	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 16:44	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 16:44	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/27/23 16:44	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/27/23 16:44	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/27/23 16:44	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/22/23 13:06	11/27/23 16:44	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 16:44	1
2-Naphthylamine	<0.595	U *	8.00	0.595	ug/L		11/22/23 13:06	11/27/23 16:44	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/27/23 16:44	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/27/23 16:44	1
2-Picoline	<0.215	U *1	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 16:44	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/27/23 16:44	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/27/23 16:44	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/27/23 16:44	1
3,3'-Dimethylbenzidine	<0.444	U * - *1	8.00	0.444	ug/L		11/22/23 13:06	11/27/23 16:44	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/27/23 16:44	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/27/23 16:44	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/27/23 16:44	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/27/23 16:44	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/27/23 16:44	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/27/23 16:44	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/27/23 16:44	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/27/23 16:44	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/27/23 16:44	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/27/23 16:44	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/27/23 16:44	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/27/23 16:44	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/27/23 16:44	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/22/23 13:06	11/27/23 16:44	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/27/23 16:44	1
Aniline	<0.314	U *1	4.00	0.314	ug/L		11/22/23 13:06	11/27/23 16:44	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/27/23 16:44	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 16:44	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 16:44	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-27-D

Lab Sample ID: 860-61897-8

Date Collected: 11/15/23 13:22

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 16:44	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/27/23 16:44	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 16:44	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/27/23 16:44	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/27/23 16:44	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/27/23 16:44	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/27/23 16:44	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/27/23 16:44	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/27/23 16:44	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 16:44	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 16:44	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 16:44	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/22/23 13:06	11/27/23 16:44	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/27/23 16:44	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/27/23 16:44	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/27/23 16:44	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/27/23 16:44	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/27/23 16:44	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/27/23 16:44	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/22/23 13:06	11/27/23 16:44	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/27/23 16:44	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 16:44	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/27/23 16:44	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/27/23 16:44	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/27/23 16:44	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/27/23 16:44	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 16:44	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/27/23 16:44	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/27/23 16:44	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/22/23 13:06	11/27/23 16:44	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/27/23 16:44	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/27/23 16:44	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/27/23 16:44	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 16:44	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/27/23 16:44	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/27/23 16:44	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/27/23 16:44	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/22/23 13:06	11/27/23 16:44	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/27/23 16:44	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/27/23 16:44	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/27/23 16:44	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/27/23 16:44	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/27/23 16:44	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/27/23 16:44	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/27/23 16:44	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/27/23 16:44	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 16:44	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/27/23 16:44	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/27/23 16:44	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-27-D

Lab Sample ID: 860-61897-8

Date Collected: 11/15/23 13:22

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 16:44	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/27/23 16:44	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/27/23 16:44	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/27/23 16:44	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/27/23 16:44	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/27/23 16:44	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/27/23 16:44	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/22/23 13:06	11/27/23 16:44	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/27/23 16:44	1
p-Phenylene diamine	<10.0	U *	10.0	10.0	ug/L		11/22/23 13:06	11/27/23 16:44	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/27/23 16:44	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/27/23 16:44	1
Pyridine	2.03	B *1	2.00	0.725	ug/L		11/22/23 13:06	11/27/23 16:44	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/27/23 16:44	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/27/23 16:44	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/27/23 16:44	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/27/23 16:44	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/27/23 16:44	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/27/23 16:44	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/22/23 13:06	11/27/23 16:44	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/27/23 16:44	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/27/23 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	60		31 - 132	11/22/23 13:06	11/27/23 16:44	1
2-Fluorobiphenyl	73		40 - 130	11/22/23 13:06	11/27/23 16:44	1
2-Fluorophenol (Surr)	41		21 - 114	11/22/23 13:06	11/27/23 16:44	1
Nitrobenzene-d5 (Surr)	60		37 - 130	11/22/23 13:06	11/27/23 16:44	1
Phenol-d5 (Surr)	21		16 - 117	11/22/23 13:06	11/27/23 16:44	1
p-Terphenyl-d14	101		20 - 141	11/22/23 13:06	11/27/23 16:44	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.150	U	0.573	0.150	ug/L		11/21/23 13:11	11/21/23 23:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	119		37 - 133	11/21/23 13:11	11/21/23 23:28	1

Client Sample ID: MW-33-S

Lab Sample ID: 860-61897-9

Date Collected: 11/15/23 13:51

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/21/23 14:41	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/21/23 14:41	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/21/23 14:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/21/23 14:41	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/21/23 14:41	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/21/23 14:41	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/21/23 14:41	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-33-S

Lab Sample ID: 860-61897-9

Date Collected: 11/15/23 13:51

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/21/23 14:41	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/21/23 14:41	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/21/23 14:41	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/21/23 14:41	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/21/23 14:41	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/21/23 14:41	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/21/23 14:41	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/21/23 14:41	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/21/23 14:41	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/21/23 14:41	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/21/23 14:41	1
2-Propanol	<5.23	U F1 F2	10.0	5.23	ug/L			11/21/23 14:41	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/21/23 14:41	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/21/23 14:41	1
Acetone	<3.07	U	100	3.07	ug/L			11/21/23 14:41	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/21/23 14:41	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/21/23 14:41	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/21/23 14:41	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/21/23 14:41	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/21/23 14:41	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/21/23 14:41	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/21/23 14:41	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/21/23 14:41	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/21/23 14:41	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/21/23 14:41	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/21/23 14:41	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/21/23 14:41	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/21/23 14:41	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/21/23 14:41	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/21/23 14:41	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/21/23 14:41	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/21/23 14:41	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/21/23 14:41	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/21/23 14:41	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/21/23 14:41	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/21/23 14:41	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/21/23 14:41	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/21/23 14:41	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/21/23 14:41	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/21/23 14:41	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/21/23 14:41	1
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/21/23 14:41	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/21/23 14:41	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/21/23 14:41	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/21/23 14:41	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/21/23 14:41	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/21/23 14:41	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/21/23 14:41	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/21/23 14:41	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-33-S

Lab Sample ID: 860-61897-9

Date Collected: 11/15/23 13:51

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/21/23 14:41	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/21/23 14:41	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/21/23 14:41	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/21/23 14:41	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/21/23 14:41	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/21/23 14:41	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/21/23 14:41	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/21/23 14:41	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/21/23 14:41	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/21/23 14:41	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/21/23 14:41	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/21/23 14:41	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/21/23 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		11/21/23 14:41	1
4-Bromofluorobenzene (Surr)	101		74 - 124		11/21/23 14:41	1
Dibromofluoromethane (Surr)	105		75 - 131		11/21/23 14:41	1
Toluene-d8 (Surr)	99		80 - 120		11/21/23 14:41	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.938	J	2.00	0.428	ug/L		11/22/23 13:06	11/22/23 19:07	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/22/23 19:07	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/22/23 19:07	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/22/23 13:06	11/22/23 19:07	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/22/23 19:07	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/22/23 19:07	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/22/23 19:07	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/22/23 19:07	1
1,4-Naphthoquinone	<1.85	U F1	8.00	1.85	ug/L		11/22/23 13:06	11/22/23 19:07	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/22/23 19:07	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/22/23 19:07	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/22/23 19:07	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/22/23 19:07	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/22/23 19:07	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/22/23 19:07	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/22/23 19:07	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/22/23 19:07	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/22/23 19:07	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/22/23 19:07	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/22/23 19:07	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/22/23 19:07	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/22/23 19:07	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/22/23 19:07	1
2-Methylnaphthalene	0.775	J	2.00	0.480	ug/L		11/22/23 13:06	11/22/23 19:07	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/22/23 19:07	1
2-Naphthylamine	<0.595	U *-	8.00	0.595	ug/L		11/22/23 13:06	11/22/23 19:07	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/22/23 19:07	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/22/23 19:07	1

Eurofins Houston

Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-33-S

Lab Sample ID: 860-61897-9

Date Collected: 11/15/23 13:51

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	<0.215	U *1	2.00	0.215	ug/L		11/22/23 13:06	11/22/23 19:07	1
2-Toluidine	<0.934	U F1	8.00	0.934	ug/L		11/22/23 13:06	11/22/23 19:07	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/22/23 19:07	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/22/23 19:07	1
3,3'-Dimethylbenzidine	<0.444	U *- F1 *1	8.00	0.444	ug/L		11/22/23 13:06	11/22/23 19:07	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/22/23 19:07	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/22/23 19:07	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/22/23 19:07	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/22/23 19:07	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/22/23 19:07	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/22/23 19:07	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/22/23 19:07	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/22/23 19:07	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/22/23 19:07	1
4-Nitroquinoline-1-oxide	<2.15	U F1	4.00	2.15	ug/L		11/22/23 13:06	11/22/23 19:07	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/22/23 19:07	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/22/23 19:07	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/22/23 19:07	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/22/23 13:06	11/22/23 19:07	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	4.00	4.00	ug/L		11/22/23 13:06	11/22/23 19:07	1
Aniline	<0.314	U *1	4.00	0.314	ug/L		11/22/23 13:06	11/22/23 19:07	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/22/23 19:07	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/22/23 19:07	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/22/23 19:07	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/22/23 19:07	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/22/23 19:07	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/22/23 19:07	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/22/23 19:07	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/22/23 19:07	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/22/23 19:07	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/22/23 19:07	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/22/23 19:07	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/22/23 19:07	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/22/23 19:07	1
Diallate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/22/23 19:07	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/22/23 19:07	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/22/23 13:06	11/22/23 19:07	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/22/23 19:07	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/22/23 19:07	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/22/23 19:07	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/22/23 19:07	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/22/23 19:07	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/22/23 19:07	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/22/23 19:07	1
Ethyl methanesulfonate	<1.38	U F1	4.00	1.38	ug/L		11/22/23 13:06	11/22/23 19:07	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/22/23 19:07	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/22/23 19:07	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/22/23 19:07	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/22/23 19:07	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-33-S

Lab Sample ID: 860-61897-9

Date Collected: 11/15/23 13:51

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/22/23 19:07	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/22/23 19:07	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/22/23 19:07	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/22/23 13:06	11/22/23 19:07	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/22/23 19:07	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/22/23 19:07	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/22/23 19:07	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/22/23 19:07	1
Methapyriline	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/22/23 19:07	1
Methyl methanesulfonate	<0.0610	U F1	2.00	0.0610	ug/L		11/22/23 13:06	11/22/23 19:07	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/22/23 19:07	1
Naphthalene	0.868	J	2.00	0.423	ug/L		11/22/23 13:06	11/22/23 19:07	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/22/23 19:07	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/22/23 19:07	1
N-Nitrosodiethylamine	<1.54	U F1	4.00	1.54	ug/L		11/22/23 13:06	11/22/23 19:07	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/22/23 19:07	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/22/23 19:07	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/22/23 19:07	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/22/23 19:07	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/22/23 19:07	1
N-Nitrosomorpholine	<1.44	U F1	4.00	1.44	ug/L		11/22/23 13:06	11/22/23 19:07	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/22/23 19:07	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/22/23 19:07	1
o,o',o''-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/22/23 19:07	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/22/23 19:07	1
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/22/23 19:07	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/22/23 19:07	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/22/23 19:07	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/22/23 19:07	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/22/23 19:07	1
Phenol	0.653	J	4.00	0.202	ug/L		11/22/23 13:06	11/22/23 19:07	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/22/23 19:07	1
p-Phenylene diamine	<10.0	U *- F1	10.0	10.0	ug/L		11/22/23 13:06	11/22/23 19:07	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/22/23 19:07	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/22/23 19:07	1
Pyridine	1.45	J B *1	2.00	0.725	ug/L		11/22/23 13:06	11/22/23 19:07	1
Safrole, Total	<0.183	U F1	4.00	0.183	ug/L		11/22/23 13:06	11/22/23 19:07	1
Sulfotep	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/22/23 19:07	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/22/23 19:07	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/22/23 19:07	1
Isosafrole Peak 1	<2.46	U F1	6.00	2.46	ug/L		11/22/23 13:06	11/22/23 19:07	1
Diallate Peak 2	<0.602	U F1	8.00	0.602	ug/L		11/22/23 13:06	11/22/23 19:07	1
Isosafrole Peak 2	<2.12	U F1	6.00	2.12	ug/L		11/22/23 13:06	11/22/23 19:07	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/22/23 19:07	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/22/23 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		31 - 132	11/22/23 13:06	11/22/23 19:07	1
2-Fluorobiphenyl	73		40 - 130	11/22/23 13:06	11/22/23 19:07	1
2-Fluorophenol (Surr)	47		21 - 114	11/22/23 13:06	11/22/23 19:07	1

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Client Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-33-S

Lab Sample ID: 860-61897-9

Date Collected: 11/15/23 13:51

Matrix: Water

Date Received: 11/20/23 13:28

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	70		37 - 130	11/22/23 13:06	11/22/23 19:07	1
Phenol-d5 (Surr)	29		16 - 117	11/22/23 13:06	11/22/23 19:07	1
p-Terphenyl-d14	107		20 - 141	11/22/23 13:06	11/22/23 19:07	1

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diphenyl ether	320		80.0	3.64	ug/L		11/22/23 13:06	11/27/23 17:12	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		31 - 132	11/22/23 13:06	11/27/23 17:12	10
2-Fluorobiphenyl	81		40 - 130	11/22/23 13:06	11/27/23 17:12	10
2-Fluorophenol (Surr)	45		21 - 114	11/22/23 13:06	11/27/23 17:12	10
Nitrobenzene-d5 (Surr)	88		37 - 130	11/22/23 13:06	11/27/23 17:12	10
Phenol-d5 (Surr)	20		16 - 117	11/22/23 13:06	11/27/23 17:12	10
p-Terphenyl-d14	124		20 - 141	11/22/23 13:06	11/27/23 17:12	10

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.150	U	0.570	0.150	ug/L		11/21/23 13:11	11/21/23 23:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	111		37 - 133	11/21/23 13:11	11/21/23 23:58	1

Surrogate Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-61897-1	TB11(111523)	105	100	105	99
860-61897-2	MW-31-S	106	100	105	98
860-61897-3	MW-32-S	105	101	106	98
860-61897-4	MW-31-D	105	101	104	99
860-61897-5	MW-32-D	105	104	106	99
860-61897-6	MW-30-S	105	102	105	99
860-61897-7	MW-27-S	105	102	105	100
860-61897-8	MW-27-D	106	104	106	99
860-61897-9	MW-33-S	105	101	105	99
860-61897-9 MS	MW-33-S	99	99	104	98
860-61897-9 MSD	MW-33-S	99	100	103	98
LCS 860-132020/3	Lab Control Sample	99	101	104	97
LCSD 860-132020/4	Lab Control Sample Dup	100	99	106	97
MB 860-132020/9	Method Blank	106	102	105	98
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
TOL = Toluene-d8 (Surr)					

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (35-130)	2FP (19-120)	FBP (43-130)	NBZ (37-133)	PHL (8-124)	TPHd14 (47-130)
860-61897-2	MW-31-S				120		
860-61897-3	MW-32-S				133		
860-61897-4	MW-31-D				127		
860-61897-5	MW-32-D				99		
860-61897-6	MW-30-S				116		
860-61897-7	MW-27-S				124		
860-61897-8	MW-27-D				119		
860-61897-9	MW-33-S				111		
860-61897-9 MS	MW-33-S	107	81	90	119	58	81
860-61897-9 MSD	MW-33-S	107	93	80	124	69	97
LCS 860-132138/2-A	Lab Control Sample	90	66	83	114	60	98
LCSD 860-132138/3-A	Lab Control Sample Dup	92	68	96	120	61	101
MB 860-132138/1-A	Method Blank	81	60	87	107	53	105
Surrogate Legend							
TBP = 2,4,6-Tribromophenol (Surr)							
2FP = 2-Fluorophenol (Surr)							
FBP = 2-Fluorobiphenyl							
NBZ = Nitrobenzene-d5 (Surr)							
PHL = Phenol-d5 (Surr)							
TPHd14 = p-Terphenyl-d14 (Surr)							

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Surrogate Summary

Client: Ashland LLC

Job ID: 860-61897-1

Project/Site: Hercules Hattiesburg, MS

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (31-132)	FBP (40-130)	2FP (21-114)	NBZ (37-130)	PHL (16-117)	TPHd14 (20-141)
860-61897-2	MW-31-S	56	64	41	59	25	99
860-61897-3	MW-32-S	65	64	41	61	22	102
860-61897-4	MW-31-D	57	65	41	59	24	95
860-61897-5	MW-32-D	55	69	44	59	23	95
860-61897-6	MW-30-S	61	67	40	60	22	99
860-61897-7	MW-27-S	57	73	43	61	21	96
860-61897-8	MW-27-D	60	73	41	60	21	101
860-61897-9	MW-33-S	79	73	47	70	29	107
860-61897-9 - DL	MW-33-S	64	81	45	88	20	124
860-61897-9 MS	MW-33-S	86	72	48	66	35	106
860-61897-9 MS	MW-33-S	81	83	52	73	26	131
860-61897-9 MSD	MW-33-S	97	83	58	76	40	114
860-61897-9 MSD	MW-33-S	83	96	60	84	36	141
LCS 860-132355/2-A	Lab Control Sample	66	74	46	63	33	101
LCSD 860-132355/3-A	Lab Control Sample Dup	73	74	49	67	36	85
MB 860-132355/1-A	Method Blank	45	58	38	55	20	84

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-132020/9

Matrix: Water

Analysis Batch: 132020

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.644	U	1.00	0.644	ug/L			11/21/23 14:00	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			11/21/23 14:00	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			11/21/23 14:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	10.0	1.11	ug/L			11/21/23 14:00	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			11/21/23 14:00	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			11/21/23 14:00	1
1,1-Dichloroethene	<0.738	U	1.00	0.738	ug/L			11/21/23 14:00	1
1,2,3-Trichloropropane	<0.470	U	1.00	0.470	ug/L			11/21/23 14:00	1
1,2,4-Trimethylbenzene	<0.417	U	1.00	0.417	ug/L			11/21/23 14:00	1
1,2-Dibromo-3-Chloropropane	<0.671	U	5.00	0.671	ug/L			11/21/23 14:00	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			11/21/23 14:00	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			11/21/23 14:00	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			11/21/23 14:00	1
1,3,5-Trimethylbenzene	<0.411	U	1.00	0.411	ug/L			11/21/23 14:00	1
1,3-Butadiene	<0.568	U	1.00	0.568	ug/L			11/21/23 14:00	1
2,2,4-Trimethylpentane	<0.500	U	5.00	0.500	ug/L			11/21/23 14:00	1
2-Butanone (MEK)	<8.28	U	50.0	8.28	ug/L			11/21/23 14:00	1
2-Hexanone (MBK)	<7.45	U	50.0	7.45	ug/L			11/21/23 14:00	1
2-Propanol	<5.23	U	10.0	5.23	ug/L			11/21/23 14:00	1
3-Chloropropene (Allyl Chloride)	<0.597	U	5.00	0.597	ug/L			11/21/23 14:00	1
4-Methyl-2-pentanone	<7.49	U	50.0	7.49	ug/L			11/21/23 14:00	1
Acetone	<3.07	U	100	3.07	ug/L			11/21/23 14:00	1
Acetonitrile	<14.6	U	100	14.6	ug/L			11/21/23 14:00	1
Acrolein	<11.1	U	50.0	11.1	ug/L			11/21/23 14:00	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			11/21/23 14:00	1
alpha-Chlorotoluene	<2.26	U	5.00	2.26	ug/L			11/21/23 14:00	1
Benzene	<0.460	U	1.00	0.460	ug/L			11/21/23 14:00	1
Bromodichloromethane	<0.552	U	1.00	0.552	ug/L			11/21/23 14:00	1
Bromoform	<0.633	U	5.00	0.633	ug/L			11/21/23 14:00	1
Bromomethane	<1.42	U	5.00	1.42	ug/L			11/21/23 14:00	1
Carbon disulfide	<1.65	U	5.00	1.65	ug/L			11/21/23 14:00	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			11/21/23 14:00	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			11/21/23 14:00	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			11/21/23 14:00	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			11/21/23 14:00	1
Chloroform	<0.464	U	1.00	0.464	ug/L			11/21/23 14:00	1
Chloromethane	<2.04	U	10.0	2.04	ug/L			11/21/23 14:00	1
Chloroprene	<0.598	U	5.00	0.598	ug/L			11/21/23 14:00	1
cis-1,2-Dichloroethene	<0.457	U	1.00	0.457	ug/L			11/21/23 14:00	1
cis-1,3-Dichloropropene	<1.07	U	5.00	1.07	ug/L			11/21/23 14:00	1
Cumene (isopropylbenzene)	<0.592	U	1.00	0.592	ug/L			11/21/23 14:00	1
Cyclohexane	<1.29	U	5.00	1.29	ug/L			11/21/23 14:00	1
Dibromomethane	<0.357	U	1.00	0.357	ug/L			11/21/23 14:00	1
Dichlorodifluoromethane	<0.785	U	1.00	0.785	ug/L			11/21/23 14:00	1
Ethyl methacrylate	<1.12	U	5.00	1.12	ug/L			11/21/23 14:00	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			11/21/23 14:00	1
Hexane	<0.517	U	5.00	0.517	ug/L			11/21/23 14:00	1
Iodomethane	<6.52	U	20.0	6.52	ug/L			11/21/23 14:00	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-132020/9

Matrix: Water

Analysis Batch: 132020

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	<17.1	U	50.0	17.1	ug/L			11/21/23 14:00	1
Methacrylonitrile	<2.72	U	10.0	2.72	ug/L			11/21/23 14:00	1
Methyl methacrylate	<2.25	U	10.0	2.25	ug/L			11/21/23 14:00	1
Methyl tert-butyl ether	<1.39	U	5.00	1.39	ug/L			11/21/23 14:00	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			11/21/23 14:00	1
Propionitrile	<3.34	U	10.0	3.34	ug/L			11/21/23 14:00	1
Propylbenzene	<0.429	U	1.00	0.429	ug/L			11/21/23 14:00	1
Styrene	<0.619	U	1.00	0.619	ug/L			11/21/23 14:00	1
Tetrachloroethene	<0.655	U	1.00	0.655	ug/L			11/21/23 14:00	1
Tetrahydrofuran	<1.83	U	10.0	1.83	ug/L			11/21/23 14:00	1
Toluene	<0.475	U	1.00	0.475	ug/L			11/21/23 14:00	1
trans-1,2-Dichloroethene	<0.368	U	1.00	0.368	ug/L			11/21/23 14:00	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			11/21/23 14:00	1
trans-1,4-Dichloro-2-butene	<1.35	U	10.0	1.35	ug/L			11/21/23 14:00	1
Trichloroethene	<1.50	U	5.00	1.50	ug/L			11/21/23 14:00	1
Trichlorofluoromethane	<0.560	U	1.00	0.560	ug/L			11/21/23 14:00	1
Vinyl acetate	<2.14	U	20.0	2.14	ug/L			11/21/23 14:00	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			11/21/23 14:00	1
Xylenes, Total	<1.24	U	10.0	1.24	ug/L			11/21/23 14:00	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/21/23 14:00	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/21/23 14:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		11/21/23 14:00	1
4-Bromofluorobenzene (Surr)	102		74 - 124		11/21/23 14:00	1
Dibromofluoromethane (Surr)	105		75 - 131		11/21/23 14:00	1
Toluene-d8 (Surr)	98		80 - 120		11/21/23 14:00	1

Lab Sample ID: LCS 860-132020/3

Matrix: Water

Analysis Batch: 132020

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	45.66		ug/L		91	72 - 125
1,1,1-Trichloroethane	50.0	46.30		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.38		ug/L		101	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.77		ug/L		102	60 - 140
1,1,2-Trichloroethane	50.0	48.27		ug/L		97	70 - 130
1,1-Dichloroethane	50.0	47.28		ug/L		95	70 - 130
1,1-Dichloroethene	50.0	45.29		ug/L		91	50 - 150
1,2,3-Trichloropropane	50.0	47.08		ug/L		94	75 - 125
1,2,4-Trimethylbenzene	50.0	46.93		ug/L		94	75 - 125
1,2-Dibromo-3-Chloropropane	50.0	55.83		ug/L		112	59 - 125
1,2-Dibromoethane	50.0	49.10		ug/L		98	73 - 125
1,2-Dichloroethane	50.0	49.83		ug/L		100	72 - 130
1,2-Dichloropropane	50.0	47.45		ug/L		95	74 - 125
1,3,5-Trimethylbenzene	50.0	46.71		ug/L		93	60 - 140
1,3-Butadiene	50.0	48.46		ug/L		97	60 - 150

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-132020/3

Matrix: Water

Analysis Batch: 132020

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2,4-Trimethylpentane	50.0	45.43		ug/L		91	70 - 130
2-Butanone (MEK)	250	268.7		ug/L		107	60 - 140
2-Hexanone (MBK)	250	253.1		ug/L		101	60 - 140
2-Propanol	500	505.1		ug/L		101	70 - 120
3-Chloropropene (Allyl Chloride)	50.0	45.82		ug/L		92	70 - 130
4-Methyl-2-pentanone	250	257.2		ug/L		103	60 - 140
Acetone	250	247.4		ug/L		99	60 - 140
Acetonitrile	500	459.9		ug/L		92	60 - 140
Acrolein	250	230.7		ug/L		92	60 - 140
Acrylonitrile	500	519.3		ug/L		104	60 - 140
alpha-Chlorotoluene	50.0	46.28		ug/L		93	75 - 125
Benzene	50.0	46.10		ug/L		92	75 - 125
Bromodichloromethane	50.0	47.66		ug/L		95	75 - 125
Bromoform	50.0	46.83		ug/L		94	70 - 130
Bromomethane	50.0	47.76		ug/L		96	60 - 140
Carbon disulfide	50.0	41.37		ug/L		83	60 - 140
Carbon tetrachloride	50.0	45.43		ug/L		91	70 - 130
Chlorobenzene	50.0	46.30		ug/L		93	65 - 135
Chlorodibromomethane	50.0	46.63		ug/L		93	73 - 125
Chloroethane	50.0	43.53		ug/L		87	60 - 140
Chloroform	50.0	48.72		ug/L		97	70 - 121
Chloromethane	50.0	44.01		ug/L		88	60 - 140
Chloroprene	50.0	47.11		ug/L		94	70 - 130
cis-1,2-Dichloroethene	50.0	48.03		ug/L		96	75 - 125
cis-1,3-Dichloropropene	50.0	46.87		ug/L		94	74 - 125
Cumene (isopropylbenzene)	50.0	45.60		ug/L		91	75 - 125
Cyclohexane	50.0	43.90		ug/L		88	70 - 130
Dibromomethane	50.0	50.50		ug/L		101	69 - 127
Dichlorodifluoromethane	50.0	38.69		ug/L		77	50 - 150
Ethyl methacrylate	50.0	47.55		ug/L		95	70 - 130
Ethylbenzene	50.0	46.01		ug/L		92	75 - 125
Hexane	50.0	44.50		ug/L		89	72 - 125
Iodomethane	50.0	45.40		ug/L		91	75 - 125
Isobutanol	1240	1296		ug/L		105	60 - 140
Methacrylonitrile	500	508.8		ug/L		102	70 - 130
Methyl methacrylate	100	98.32		ug/L		98	70 - 130
Methyl tert-butyl ether	50.0	47.73		ug/L		95	65 - 135
Methylene Chloride	50.0	47.93		ug/L		96	71 - 125
Propionitrile	500	525.4		ug/L		105	70 - 130
Propylbenzene	50.0	48.81		ug/L		98	75 - 125
Styrene	50.0	46.25		ug/L		93	75 - 125
Tetrachloroethene	50.0	46.27		ug/L		93	71 - 125
Tetrahydrofuran	100	106.0		ug/L		106	75 - 125
Toluene	50.0	45.58		ug/L		91	70 - 130
trans-1,2-Dichloroethene	50.0	47.93		ug/L		96	75 - 125
trans-1,3-Dichloropropene	50.0	45.50		ug/L		91	66 - 125
trans-1,4-Dichloro-2-butene	50.0	49.69		ug/L		99	70 - 130
Trichloroethene	50.0	47.02		ug/L		94	75 - 135
Trichlorofluoromethane	50.0	57.16		ug/L		114	60 - 140

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-132020/3

Matrix: Water

Analysis Batch: 132020

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	250	250.7		ug/L		100	60 - 140
Vinyl chloride	50.0	48.94		ug/L		98	60 - 140
Xylenes, Total	100	91.04		ug/L		91	75 - 125
m,p-Xylenes	0.0500	0.04541		mg/L		91	75 - 125
o-Xylene	0.0500	0.04563		mg/L		91	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: LCSD 860-132020/4

Matrix: Water

Analysis Batch: 132020

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	47.25		ug/L		94	72 - 125	3	25
1,1,1-Trichloroethane	50.0	48.17		ug/L		96	70 - 130	4	25
1,1,2,2-Tetrachloroethane	50.0	52.34		ug/L		105	74 - 125	4	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.84		ug/L		104	60 - 140	2	25
1,1,2-Trichloroethane	50.0	49.38		ug/L		99	70 - 130	2	25
1,1-Dichloroethane	50.0	49.73		ug/L		99	70 - 130	5	25
1,1-Dichloroethene	50.0	48.23		ug/L		96	50 - 150	6	25
1,2,3-Trichloropropane	50.0	48.61		ug/L		97	75 - 125	3	25
1,2,4-Trimethylbenzene	50.0	47.15		ug/L		94	75 - 125	0	25
1,2-Dibromo-3-Chloropropane	50.0	58.76		ug/L		118	59 - 125	5	25
1,2-Dibromoethane	50.0	50.62		ug/L		101	73 - 125	3	25
1,2-Dichloroethane	50.0	50.81		ug/L		102	72 - 130	2	25
1,2-Dichloropropane	50.0	49.08		ug/L		98	74 - 125	3	25
1,3,5-Trimethylbenzene	50.0	47.40		ug/L		95	60 - 140	1	25
1,3-Butadiene	50.0	52.51		ug/L		105	60 - 150	8	25
2,2,4-Trimethylpentane	50.0	45.80		ug/L		92	70 - 130	1	25
2-Butanone (MEK)	250	285.9		ug/L		114	60 - 140	6	25
2-Hexanone (MBK)	250	264.8		ug/L		106	60 - 140	5	25
2-Propanol	500	531.5		ug/L		106	70 - 120	5	25
3-Chloropropene (Allyl Chloride)	50.0	47.95		ug/L		96	70 - 130	5	25
4-Methyl-2-pentanone	250	268.0		ug/L		107	60 - 140	4	25
Acetone	250	254.4		ug/L		102	60 - 140	3	25
Acetonitrile	500	481.3		ug/L		96	60 - 140	5	25
Acrolein	250	251.3		ug/L		101	60 - 140	9	25
Acrylonitrile	500	542.2		ug/L		108	60 - 140	4	25
alpha-Chlorotoluene	50.0	47.36		ug/L		95	75 - 125	2	25
Benzene	50.0	47.31		ug/L		95	75 - 125	3	25
Bromodichloromethane	50.0	48.54		ug/L		97	75 - 125	2	25
Bromoform	50.0	48.56		ug/L		97	70 - 130	4	25
Bromomethane	50.0	51.56		ug/L		103	60 - 140	8	25
Carbon disulfide	50.0	42.54		ug/L		85	60 - 140	3	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-132020/4

Matrix: Water

Analysis Batch: 132020

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride	50.0	44.69		ug/L		89	70 - 130	2	25
Chlorobenzene	50.0	47.14		ug/L		94	65 - 135	2	25
Chlorodibromomethane	50.0	47.86		ug/L		96	73 - 125	3	25
Chloroethane	50.0	46.04		ug/L		92	60 - 140	6	25
Chloroform	50.0	50.67		ug/L		101	70 - 121	4	25
Chloromethane	50.0	46.10		ug/L		92	60 - 140	5	25
Chloroprene	50.0	48.22		ug/L		96	70 - 130	2	25
cis-1,2-Dichloroethene	50.0	49.19		ug/L		98	75 - 125	2	25
cis-1,3-Dichloropropene	50.0	48.30		ug/L		97	74 - 125	3	25
Cumene (isopropylbenzene)	50.0	46.37		ug/L		93	75 - 125	2	25
Cyclohexane	50.0	45.10		ug/L		90	70 - 130	3	25
Dibromomethane	50.0	51.51		ug/L		103	69 - 127	2	25
Dichlorodifluoromethane	50.0	40.36		ug/L		81	50 - 150	4	25
Ethyl methacrylate	50.0	49.27		ug/L		99	70 - 130	4	25
Ethylbenzene	50.0	46.81		ug/L		94	75 - 125	2	25
Hexane	50.0	45.40		ug/L		91	72 - 125	2	25
Iodomethane	50.0	47.92		ug/L		96	75 - 125	5	25
Isobutanol	1240	1362		ug/L		110	60 - 140	5	25
Methacrylonitrile	500	533.2		ug/L		107	70 - 130	5	25
Methyl methacrylate	100	102.3		ug/L		102	70 - 130	4	25
Methyl tert-butyl ether	50.0	49.36		ug/L		99	65 - 135	3	25
Methylene Chloride	50.0	49.04		ug/L		98	71 - 125	2	25
Propionitrile	500	556.7		ug/L		111	70 - 130	6	25
Propylbenzene	50.0	47.91		ug/L		96	75 - 125	2	25
Styrene	50.0	47.01		ug/L		94	75 - 125	2	25
Tetrachloroethene	50.0	46.74		ug/L		93	71 - 125	1	25
Tetrahydrofuran	100	112.3		ug/L		112	75 - 125	6	25
Toluene	50.0	46.61		ug/L		93	70 - 130	2	25
trans-1,2-Dichloroethene	50.0	48.37		ug/L		97	75 - 125	1	25
trans-1,3-Dichloropropene	50.0	47.00		ug/L		94	66 - 125	3	25
trans-1,4-Dichloro-2-butene	50.0	52.06		ug/L		104	70 - 130	5	25
Trichloroethene	50.0	48.66		ug/L		97	75 - 135	3	25
Trichlorofluoromethane	50.0	60.01		ug/L		120	60 - 140	5	25
Vinyl acetate	250	255.7		ug/L		102	60 - 140	2	25
Vinyl chloride	50.0	51.39		ug/L		103	60 - 140	5	25
Xylenes, Total	100	92.31		ug/L		92	75 - 125	1	25
m,p-Xylenes	0.0500	0.04605		mg/L		92	75 - 125	1	25
o-Xylene	0.0500	0.04626		mg/L		93	75 - 125	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	106		75 - 131
Toluene-d8 (Surr)	97		80 - 120

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61897-9 MS

Matrix: Water

Analysis Batch: 132020

Client Sample ID: MW-33-S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	47.78		ug/L		96	72 - 125
1,1,1-Trichloroethane	<0.585	U	50.0	49.44		ug/L		99	75 - 125
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	50.83		ug/L		102	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	56.12		ug/L		112	60 - 140
1,1,2-Trichloroethane	<0.411	U	50.0	49.53		ug/L		99	75 - 127
1,1-Dichloroethane	<0.635	U	50.0	49.77		ug/L		100	72 - 125
1,1-Dichloroethene	<0.738	U	50.0	49.36		ug/L		99	59 - 172
1,2,3-Trichloropropane	<0.470	U	50.0	46.51		ug/L		93	75 - 125
1,2,4-Trimethylbenzene	<0.417	U	50.0	48.59		ug/L		97	75 - 125
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	55.54		ug/L		111	59 - 125
1,2-Dibromoethane	<0.999	U	50.0	49.93		ug/L		100	73 - 125
1,2-Dichloroethane	<0.372	U	50.0	49.70		ug/L		99	68 - 127
1,2-Dichloropropane	<0.556	U	50.0	48.53		ug/L		97	74 - 125
1,3,5-Trimethylbenzene	<0.411	U	50.0	48.73		ug/L		97	70 - 125
1,3-Butadiene	<0.568	U	50.0	50.67		ug/L		101	70 - 150
2,2,4-Trimethylpentane	<0.500	U	50.0	49.77		ug/L		100	70 - 130
2-Butanone (MEK)	<8.28	U	250	267.4		ug/L		107	60 - 140
2-Hexanone (MBK)	<7.45	U	250	249.1		ug/L		100	60 - 140
2-Propanol	<5.23	U F1 F2	500	509.7		ug/L		102	70 - 120
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	46.37		ug/L		93	70 - 130
4-Methyl-2-pentanone	<7.49	U	250	252.9		ug/L		101	60 - 140
Acetone	<3.07	U	250	247.8		ug/L		99	60 - 140
Acetonitrile	<14.6	U	500	465.4		ug/L		93	60 - 140
Acrolein	<11.1	U	250	242.9		ug/L		97	50 - 150
Acrylonitrile	<14.3	U	500	514.9		ug/L		103	50 - 150
alpha-Chlorotoluene	<2.26	U	50.0	48.22		ug/L		96	70 - 130
Benzene	<0.460	U	50.0	47.80		ug/L		96	66 - 142
Bromodichloromethane	<0.552	U	50.0	48.88		ug/L		98	75 - 125
Bromoform	<0.633	U	50.0	48.03		ug/L		96	75 - 125
Bromomethane	<1.42	U	50.0	48.72		ug/L		97	60 - 140
Carbon disulfide	<1.65	U	50.0	46.10		ug/L		92	60 - 140
Carbon tetrachloride	<0.896	U	50.0	46.92		ug/L		94	62 - 125
Chlorobenzene	<0.455	U	50.0	48.27		ug/L		97	60 - 133
Chlorodibromomethane	<0.547	U	50.0	47.65		ug/L		95	73 - 125
Chloroethane	<1.98	U	50.0	43.96		ug/L		88	60 - 140
Chloroform	<0.464	U	50.0	50.54		ug/L		101	70 - 130
Chloromethane	<2.04	U	50.0	43.90		ug/L		88	60 - 140
Chloroprene	<0.598	U	50.0	49.82		ug/L		100	70 - 130
cis-1,2-Dichloroethene	<0.457	U	50.0	49.99		ug/L		100	75 - 125
cis-1,3-Dichloropropene	<1.07	U	50.0	48.53		ug/L		97	74 - 125
Cumene (isopropylbenzene)	<0.592	U	50.0	47.75		ug/L		95	75 - 125
Cyclohexane	<1.29	U	50.0	47.86		ug/L		96	70 - 130
Dibromomethane	<0.357	U	50.0	51.65		ug/L		103	69 - 127
Dichlorodifluoromethane	<0.785	U	50.0	38.86		ug/L		78	70 - 130
Ethyl methacrylate	<1.12	U	50.0	47.98		ug/L		96	70 - 130
Ethylbenzene	<0.385	U	50.0	47.93		ug/L		96	75 - 125
Hexane	<0.517	U	50.0	49.73		ug/L		99	72 - 125
Iodomethane	<6.52	U	50.0	49.93		ug/L		100	75 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61897-9 MS

Matrix: Water

Analysis Batch: 132020

Client Sample ID: MW-33-S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Isobutanol	<17.1	U	1240	1248		ug/L		101	60 - 140
Methacrylonitrile	<2.72	U	500	506.6		ug/L		101	70 - 130
Methyl methacrylate	<2.25	U	100	99.03		ug/L		99	70 - 130
Methyl tert-butyl ether	<1.39	U	50.0	47.88		ug/L		96	65 - 135
Methylene Chloride	<1.73	U	50.0	49.03		ug/L		98	75 - 125
Propionitrile	<3.34	U	500	528.0		ug/L		106	70 - 130
Propylbenzene	<0.429	U	50.0	49.27		ug/L		99	75 - 125
Styrene	<0.619	U	50.0	48.26		ug/L		97	75 - 125
Tetrachloroethene	<0.655	U	50.0	48.75		ug/L		98	71 - 125
Tetrahydrofuran	<1.83	U	100	109.3		ug/L		109	75 - 125
Toluene	<0.475	U	50.0	47.95		ug/L		96	59 - 139
trans-1,2-Dichloroethene	<0.368	U	50.0	51.26		ug/L		103	75 - 125
trans-1,3-Dichloropropene	<1.27	U	50.0	47.17		ug/L		94	66 - 125
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	47.66		ug/L		95	70 - 130
Trichloroethene	<1.50	U	50.0	49.52		ug/L		99	62 - 137
Trichlorofluoromethane	<0.560	U	50.0	58.76		ug/L		118	60 - 140
Vinyl acetate	<2.14	U	250	253.9		ug/L		102	60 - 140
Vinyl chloride	<0.428	U	50.0	48.92		ug/L		98	60 - 140
Xylenes, Total	<1.24	U	100	95.25		ug/L		95	75 - 125
m,p-Xylenes	<0.00124	U	0.0500	0.04770		mg/L		95	75 - 125
o-Xylene	<0.000502	U	0.0500	0.04755		mg/L		95	75 - 125
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	99		63 - 144						
4-Bromofluorobenzene (Surr)	99		74 - 124						
Dibromofluoromethane (Surr)	104		75 - 131						
Toluene-d8 (Surr)	98		80 - 120						

Lab Sample ID: 860-61897-9 MSD

Matrix: Water

Analysis Batch: 132020

Client Sample ID: MW-33-S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.644	U	50.0	48.71		ug/L		97	72 - 125	2	25
1,1,1-Trichloroethane	<0.585	U	50.0	49.12		ug/L		98	75 - 125	1	25
1,1,2,2-Tetrachloroethane	<0.470	U	50.0	52.01		ug/L		104	74 - 125	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.11	U	50.0	55.46		ug/L		111	60 - 140	1	25
1,1,2-Trichloroethane	<0.411	U	50.0	50.10		ug/L		100	75 - 127	1	25
1,1-Dichloroethane	<0.635	U	50.0	49.37		ug/L		99	72 - 125	1	25
1,1-Dichloroethene	<0.738	U	50.0	50.33		ug/L		101	59 - 172	2	25
1,2,3-Trichloropropane	<0.470	U	50.0	48.13		ug/L		96	75 - 125	3	25
1,2,4-Trimethylbenzene	<0.417	U	50.0	48.90		ug/L		98	75 - 125	1	25
1,2-Dibromo-3-Chloropropane	<0.671	U	50.0	57.82		ug/L		116	59 - 125	4	25
1,2-Dibromoethane	<0.999	U	50.0	50.97		ug/L		102	73 - 125	2	25
1,2-Dichloroethane	<0.372	U	50.0	50.17		ug/L		100	68 - 127	1	25
1,2-Dichloropropane	<0.556	U	50.0	49.42		ug/L		99	74 - 125	2	25
1,3,5-Trimethylbenzene	<0.411	U	50.0	49.03		ug/L		98	70 - 125	1	25
1,3-Butadiene	<0.568	U	50.0	49.27		ug/L		99	70 - 150	3	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61897-9 MSD

Matrix: Water

Analysis Batch: 132020

Client Sample ID: MW-33-S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,2,4-Trimethylpentane	<0.500	U	50.0	49.75		ug/L		100	70 - 130	0	25
2-Butanone (MEK)	<8.28	U	250	274.4		ug/L		110	60 - 140	3	25
2-Hexanone (MBK)	<7.45	U	250	260.0		ug/L		104	60 - 140	4	25
2-Propanol	<5.23	U F1 F2	500	35.57	F1 F2	ug/L		7	70 - 120	174	25
3-Chloropropene (Allyl Chloride)	<0.597	U	50.0	50.22		ug/L		100	70 - 130	8	25
4-Methyl-2-pentanone	<7.49	U	250	261.5		ug/L		105	60 - 140	3	25
Acetone	<3.07	U	250	247.9		ug/L		99	60 - 140	0	25
Acetonitrile	<14.6	U	500	504.1		ug/L		101	60 - 140	8	25
Acrolein	<11.1	U	250	246.9		ug/L		99	50 - 150	2	25
Acrylonitrile	<14.3	U	500	521.4		ug/L		104	50 - 150	1	25
alpha-Chlorotoluene	<2.26	U	50.0	49.37		ug/L		99	70 - 130	2	25
Benzene	<0.460	U	50.0	48.19		ug/L		96	66 - 142	1	25
Bromodichloromethane	<0.552	U	50.0	49.31		ug/L		99	75 - 125	1	25
Bromoform	<0.633	U	50.0	48.73		ug/L		97	75 - 125	1	25
Bromomethane	<1.42	U	50.0	49.68		ug/L		99	60 - 140	2	25
Carbon disulfide	<1.65	U	50.0	45.39		ug/L		91	60 - 140	2	25
Carbon tetrachloride	<0.896	U	50.0	47.78		ug/L		96	62 - 125	2	25
Chlorobenzene	<0.455	U	50.0	48.68		ug/L		97	60 - 133	1	25
Chlorodibromomethane	<0.547	U	50.0	48.47		ug/L		97	73 - 125	2	25
Chloroethane	<1.98	U	50.0	43.86		ug/L		88	60 - 140	0	25
Chloroform	<0.464	U	50.0	50.12		ug/L		100	70 - 130	1	25
Chloromethane	<2.04	U	50.0	42.90		ug/L		86	60 - 140	2	25
Chloroprene	<0.598	U	50.0	48.91		ug/L		98	70 - 130	2	25
cis-1,2-Dichloroethene	<0.457	U	50.0	49.19		ug/L		98	75 - 125	2	25
cis-1,3-Dichloropropene	<1.07	U	50.0	48.54		ug/L		97	74 - 125	0	25
Cumene (isopropylbenzene)	<0.592	U	50.0	48.38		ug/L		97	75 - 125	1	25
Cyclohexane	<1.29	U	50.0	47.33		ug/L		95	70 - 130	1	25
Dibromomethane	<0.357	U	50.0	51.80		ug/L		104	69 - 127	0	25
Dichlorodifluoromethane	<0.785	U	50.0	37.67		ug/L		75	70 - 130	3	25
Ethyl methacrylate	<1.12	U	50.0	48.67		ug/L		97	70 - 130	1	25
Ethylbenzene	<0.385	U	50.0	48.82		ug/L		98	75 - 125	2	25
Hexane	<0.517	U	50.0	49.85		ug/L		100	72 - 125	0	25
Iodomethane	<6.52	U	50.0	49.89		ug/L		100	75 - 125	0	25
Isobutanol	<17.1	U	1240	1326		ug/L		107	60 - 140	6	25
Methacrylonitrile	<2.72	U	500	517.6		ug/L		104	70 - 130	2	25
Methyl methacrylate	<2.25	U	100	101.3		ug/L		101	70 - 130	2	25
Methyl tert-butyl ether	<1.39	U	50.0	48.54		ug/L		97	65 - 135	1	25
Methylene Chloride	<1.73	U	50.0	48.30		ug/L		97	75 - 125	1	25
Propionitrile	<3.34	U	500	534.5		ug/L		107	70 - 130	1	25
Propylbenzene	<0.429	U	50.0	49.91		ug/L		100	75 - 125	1	25
Styrene	<0.619	U	50.0	48.81		ug/L		98	75 - 125	1	25
Tetrachloroethene	<0.655	U	50.0	49.25		ug/L		99	71 - 125	1	25
Tetrahydrofuran	<1.83	U	100	105.6		ug/L		106	75 - 125	3	25
Toluene	<0.475	U	50.0	48.66		ug/L		97	59 - 139	1	25
trans-1,2-Dichloroethene	<0.368	U	50.0	51.22		ug/L		102	75 - 125	0	25
trans-1,3-Dichloropropene	<1.27	U	50.0	47.84		ug/L		96	66 - 125	1	25
trans-1,4-Dichloro-2-butene	<1.35	U	50.0	51.06		ug/L		102	70 - 130	7	25
Trichloroethene	<1.50	U	50.0	49.95		ug/L		100	62 - 137	1	25
Trichlorofluoromethane	<0.560	U	50.0	57.30		ug/L		115	60 - 140	3	25

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61897-9 MSD

Matrix: Water

Analysis Batch: 132020

Client Sample ID: MW-33-S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl acetate	<2.14	U	250	254.3		ug/L		102	60 - 140	0	25
Vinyl chloride	<0.428	U	50.0	48.34		ug/L		97	60 - 140	1	25
Xylenes, Total	<1.24	U	100	96.21		ug/L		96	75 - 125	1	25
m,p-Xylenes	<0.00124	U	0.0500	0.04840		mg/L		97	75 - 125	1	25
o-Xylene	<0.000502	U	0.0500	0.04781		mg/L		96	75 - 125	1	25
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	99		63 - 144								
4-Bromofluorobenzene (Surr)	100		74 - 124								
Dibromofluoromethane (Surr)	103		75 - 131								
Toluene-d8 (Surr)	98		80 - 120								

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-132138/1-A

Matrix: Water

Analysis Batch: 132198

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132138

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.150	U	0.571	0.150	ug/L		11/21/23 13:11	11/21/23 18:59	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	107		37 - 133				11/21/23 13:11	11/21/23 18:59	1

Lab Sample ID: LCS 860-132138/2-A

Matrix: Water

Analysis Batch: 132198

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132138

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane	2.86	1.103		ug/L		39	27 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	90		35 - 130						
2-Fluorophenol (Surr)	66		19 - 120						
2-Fluorobiphenyl	83		43 - 130						
Nitrobenzene-d5 (Surr)	114		37 - 133						
Phenol-d5 (Surr)	60		8 - 124						
p-Terphenyl-d14 (Surr)	98		47 - 130						

Lab Sample ID: LCSD 860-132138/3-A

Matrix: Water

Analysis Batch: 132198

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132138

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.86	1.103		ug/L		39	27 - 130	0	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	92		35 - 130						

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-132138/3-A

Matrix: Water

Analysis Batch: 132198

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132138

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorophenol (Surr)	68		19 - 120
2-Fluorobiphenyl	96		43 - 130
Nitrobenzene-d5 (Surr)	120		37 - 133
Phenol-d5 (Surr)	61		8 - 124
p-Terphenyl-d14 (Surr)	101		47 - 130

Lab Sample ID: 860-61897-9 MS

Matrix: Water

Analysis Batch: 132198

Client Sample ID: MW-33-S

Prep Type: Total/NA

Prep Batch: 132138

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	<0.150	U	2.87	0.9785		ug/L		34	28 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	107		35 - 130
2-Fluorophenol (Surr)	81		19 - 120
2-Fluorobiphenyl	90		43 - 130
Nitrobenzene-d5 (Surr)	119		37 - 133
Phenol-d5 (Surr)	58		8 - 124
p-Terphenyl-d14 (Surr)	81		47 - 130

Lab Sample ID: 860-61897-9 MSD

Matrix: Water

Analysis Batch: 132198

Client Sample ID: MW-33-S

Prep Type: Total/NA

Prep Batch: 132138

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	<0.150	U	2.92	1.056		ug/L		36	28 - 130	8	30

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	107		35 - 130
2-Fluorophenol (Surr)	93		19 - 120
2-Fluorobiphenyl	80		43 - 130
Nitrobenzene-d5 (Surr)	124		37 - 133
Phenol-d5 (Surr)	69		8 - 124
p-Terphenyl-d14 (Surr)	97		47 - 130

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 860-132355/1-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/22/23 17:23	1
1,2,4,5-Tetrachlorobenzene	<0.672	U	2.00	0.672	ug/L		11/22/23 13:06	11/22/23 17:23	1
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		11/22/23 13:06	11/22/23 17:23	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		11/22/23 13:06	11/22/23 17:23	1
1,3,5-Trinitrobenzene	<1.43	U	2.00	1.43	ug/L		11/22/23 13:06	11/22/23 17:23	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-132355/1-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132355

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		11/22/23 13:06	11/22/23 17:23	1
1,3-Dinitrobenzene	<0.112	U	2.00	0.112	ug/L		11/22/23 13:06	11/22/23 17:23	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		11/22/23 13:06	11/22/23 17:23	1
1,4-Naphthoquinone	<1.85	U	8.00	1.85	ug/L		11/22/23 13:06	11/22/23 17:23	1
1-Naphthylamine	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,2'-oxybis[1-chloropropane]	<0.139	U	2.00	0.139	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,3,4,6-Tetrachlorophenol	<0.174	U	2.00	0.174	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,6-Dichlorophenol	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/22/23 17:23	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Acetylaminofluorene	<1.52	U	8.00	1.52	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Chlorophenol	<0.0135	U	2.00	0.0135	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Naphthylamine	<0.595	U	8.00	0.595	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Picoline	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/22/23 17:23	1
2-Toluidine	<0.934	U	8.00	0.934	ug/L		11/22/23 13:06	11/22/23 17:23	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		11/22/23 13:06	11/22/23 17:23	1
3,3'-Dichlorobenzidine	<0.220	U	4.00	0.220	ug/L		11/22/23 13:06	11/22/23 17:23	1
3,3'-Dimethylbenzidine	<0.444	U	8.00	0.444	ug/L		11/22/23 13:06	11/22/23 17:23	1
3-Methylcholanthrene	<0.159	U	8.00	0.159	ug/L		11/22/23 13:06	11/22/23 17:23	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		11/22/23 13:06	11/22/23 17:23	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		11/22/23 13:06	11/22/23 17:23	1
4-Aminobiphenyl	<0.297	U	8.00	0.297	ug/L		11/22/23 13:06	11/22/23 17:23	1
4-Bromophenyl phenyl ether	<0.167	U	2.00	0.167	ug/L		11/22/23 13:06	11/22/23 17:23	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		11/22/23 13:06	11/22/23 17:23	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		11/22/23 13:06	11/22/23 17:23	1
4-Chlorophenyl phenyl ether	<0.232	U	2.00	0.232	ug/L		11/22/23 13:06	11/22/23 17:23	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		11/22/23 13:06	11/22/23 17:23	1
4-Nitroquinoline-1-oxide	<2.15	U	4.00	2.15	ug/L		11/22/23 13:06	11/22/23 17:23	1
7,12-Dimethylbenz(a)anthracene	<0.0610	U	8.00	0.0610	ug/L		11/22/23 13:06	11/22/23 17:23	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		11/22/23 13:06	11/22/23 17:23	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		11/22/23 13:06	11/22/23 17:23	1
Acetophenone	<0.225	U	4.00	0.225	ug/L		11/22/23 13:06	11/22/23 17:23	1
alpha,alpha-Dimethyl phenethylamine	<4.00	U	4.00	4.00	ug/L		11/22/23 13:06	11/22/23 17:23	1
Aniline	<0.314	U	4.00	0.314	ug/L		11/22/23 13:06	11/22/23 17:23	1
Anthracene	<0.154	U	2.00	0.154	ug/L		11/22/23 13:06	11/22/23 17:23	1
Aramite, Total	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/22/23 17:23	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/22/23 17:23	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/22/23 17:23	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		11/22/23 13:06	11/22/23 17:23	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-132355/1-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/22/23 17:23	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		11/22/23 13:06	11/22/23 17:23	1
Benzyl alcohol	<4.50	U	8.00	4.50	ug/L		11/22/23 13:06	11/22/23 17:23	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		11/22/23 13:06	11/22/23 17:23	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		11/22/23 13:06	11/22/23 17:23	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		11/22/23 13:06	11/22/23 17:23	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		11/22/23 13:06	11/22/23 17:23	1
Chrysene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/22/23 17:23	1
Diallylate	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/22/23 17:23	1
Dibenz[a,h]anthracene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/22/23 17:23	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		11/22/23 13:06	11/22/23 17:23	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		11/22/23 13:06	11/22/23 17:23	1
Dimethoate	<1.70	U	8.00	1.70	ug/L		11/22/23 13:06	11/22/23 17:23	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		11/22/23 13:06	11/22/23 17:23	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		11/22/23 13:06	11/22/23 17:23	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		11/22/23 13:06	11/22/23 17:23	1
Dinoseb	<2.00	U	4.00	2.00	ug/L		11/22/23 13:06	11/22/23 17:23	1
Diphenyl ether	<0.364	U	8.00	0.364	ug/L		11/22/23 13:06	11/22/23 17:23	1
Disulfoton	<1.39	U	8.00	1.39	ug/L		11/22/23 13:06	11/22/23 17:23	1
Ethyl methanesulfonate	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/22/23 17:23	1
Ethyl Parathion	<1.41	U	4.00	1.41	ug/L		11/22/23 13:06	11/22/23 17:23	1
Famphur	<8.00	U	8.00	8.00	ug/L		11/22/23 13:06	11/22/23 17:23	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		11/22/23 13:06	11/22/23 17:23	1
Fluorene	<0.205	U	2.00	0.205	ug/L		11/22/23 13:06	11/22/23 17:23	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/22/23 17:23	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		11/22/23 13:06	11/22/23 17:23	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		11/22/23 13:06	11/22/23 17:23	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		11/22/23 13:06	11/22/23 17:23	1
Hexachloropropene	<0.213	U	4.00	0.213	ug/L		11/22/23 13:06	11/22/23 17:23	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		11/22/23 13:06	11/22/23 17:23	1
Isophorone	<0.168	U	2.00	0.168	ug/L		11/22/23 13:06	11/22/23 17:23	1
Isosafrole	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/22/23 17:23	1
Methapyrilene	<0.181	U	2.00	0.181	ug/L		11/22/23 13:06	11/22/23 17:23	1
Methyl methanesulfonate	<0.0610	U	2.00	0.0610	ug/L		11/22/23 13:06	11/22/23 17:23	1
Methyl parathion	<1.64	U	4.00	1.64	ug/L		11/22/23 13:06	11/22/23 17:23	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		11/22/23 13:06	11/22/23 17:23	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitro-o-toluidine	<1.31	U	8.00	1.31	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosodiethylamine	<1.54	U	4.00	1.54	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosodimethylamine	<0.126	U	2.00	0.126	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosodi-n-butylamine	<1.54	U	2.00	1.54	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosomethylethylamine	<0.199	U	2.00	0.199	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosomorpholine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosopiperidine	<1.44	U	4.00	1.44	ug/L		11/22/23 13:06	11/22/23 17:23	1
N-Nitrosopyrrolidine	<1.38	U	4.00	1.38	ug/L		11/22/23 13:06	11/22/23 17:23	1
o,o',o"-Triethylphosphorothioate	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/22/23 17:23	1
p-Dimethylamino azobenzene	<0.0579	U	8.00	0.0579	ug/L		11/22/23 13:06	11/22/23 17:23	1

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-132355/1-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 132355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	<1.18	U	2.00	1.18	ug/L		11/22/23 13:06	11/22/23 17:23	1
Pentachloronitrobenzene	<1.27	U	2.00	1.27	ug/L		11/22/23 13:06	11/22/23 17:23	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		11/22/23 13:06	11/22/23 17:23	1
Phenacetin	<1.32	U	8.00	1.32	ug/L		11/22/23 13:06	11/22/23 17:23	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		11/22/23 13:06	11/22/23 17:23	1
Phenol	<0.202	U	4.00	0.202	ug/L		11/22/23 13:06	11/22/23 17:23	1
Phorate	<1.40	U	8.00	1.40	ug/L		11/22/23 13:06	11/22/23 17:23	1
p-Phenylene diamine	<10.0	U	10.0	10.0	ug/L		11/22/23 13:06	11/22/23 17:23	1
Pronamide	<1.39	U	4.00	1.39	ug/L		11/22/23 13:06	11/22/23 17:23	1
Pyrene	<0.159	U	2.00	0.159	ug/L		11/22/23 13:06	11/22/23 17:23	1
Pyridine	1.202	J	2.00	0.725	ug/L		11/22/23 13:06	11/22/23 17:23	1
Safrole, Total	<0.183	U	4.00	0.183	ug/L		11/22/23 13:06	11/22/23 17:23	1
Sulfotepp	<1.43	U	4.00	1.43	ug/L		11/22/23 13:06	11/22/23 17:23	1
Thionazin	<1.44	U	8.00	1.44	ug/L		11/22/23 13:06	11/22/23 17:23	1
Aramite Peak 2	<2.74	U	4.00	2.74	ug/L		11/22/23 13:06	11/22/23 17:23	1
Isosafrole Peak 1	<2.46	U	6.00	2.46	ug/L		11/22/23 13:06	11/22/23 17:23	1
Diallate Peak 2	<0.602	U	8.00	0.602	ug/L		11/22/23 13:06	11/22/23 17:23	1
Isosafrole Peak 2	<2.12	U	6.00	2.12	ug/L		11/22/23 13:06	11/22/23 17:23	1
Diallate Peak 1	<0.675	U	8.00	0.675	ug/L		11/22/23 13:06	11/22/23 17:23	1
Aramite Peak 1	<0.670	U	4.00	0.670	ug/L		11/22/23 13:06	11/22/23 17:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	45		31 - 132	11/22/23 13:06	11/22/23 17:23	1
2-Fluorobiphenyl	58		40 - 130	11/22/23 13:06	11/22/23 17:23	1
2-Fluorophenol (Surr)	38		21 - 114	11/22/23 13:06	11/22/23 17:23	1
Nitrobenzene-d5 (Surr)	55		37 - 130	11/22/23 13:06	11/22/23 17:23	1
Phenol-d5 (Surr)	20		16 - 117	11/22/23 13:06	11/22/23 17:23	1
p-Terphenyl-d14	84		20 - 141	11/22/23 13:06	11/22/23 17:23	1

Lab Sample ID: LCS 860-132355/2-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	20.0	10.41		ug/L		52	41 - 117
1,2,4,5-Tetrachlorobenzene	20.0	10.11		ug/L		51	39 - 120
1,2,4-Trichlorobenzene	20.0	10.27		ug/L		51	34 - 117
1,2-Dichlorobenzene	20.0	10.77		ug/L		54	38 - 111
1,3,5-Trinitrobenzene	20.0	16.84		ug/L		84	35 - 128
1,3-Dichlorobenzene	20.0	10.63		ug/L		53	37 - 111
1,3-Dinitrobenzene	20.0	11.11		ug/L		56	36 - 131
1,4-Dichlorobenzene	20.0	10.63		ug/L		53	37 - 111
1,4-Naphthoquinone	20.0	10.45		ug/L		52	10 - 150
1-Naphthylamine	20.0	9.067		ug/L		45	40 - 120
2,2'-oxybis[1-chloropropane]	20.0	10.43		ug/L		52	10 - 150
2,3,4,6-Tetrachlorophenol	20.0	10.58		ug/L		53	33 - 132
2,4,5-Trichlorophenol	20.0	10.83		ug/L		54	39 - 125
2,4,6-Trichlorophenol	20.0	10.60		ug/L		53	42 - 125

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-132355/2-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dichlorophenol	20.0	9.861		ug/L		49	38 - 120
2,4-Dimethylphenol	20.0	12.33		ug/L		62	39 - 117
2,4-Dinitrophenol	20.0	9.811		ug/L		49	13 - 152
2,4-Dinitrotoluene	20.0	12.21		ug/L		61	41 - 128
2,6-Dichlorophenol	20.0	10.21		ug/L		51	42 - 118
2,6-Dinitrotoluene	20.0	11.51		ug/L		58	42 - 127
2-Acetylaminofluorene	20.0	17.38		ug/L		87	40 - 130
2-Chloronaphthalene	20.0	10.01		ug/L		50	40 - 118
2-Chlorophenol	20.0	9.736		ug/L		49	41 - 108
2-Methylnaphthalene	20.0	10.74		ug/L		54	37 - 112
2-Methylphenol	20.0	9.422		ug/L		47	36 - 125
2-Naphthylamine	20.0	7.715	J *	ug/L		39	40 - 120
2-Nitroaniline	20.0	9.300		ug/L		47	34 - 126
2-Nitrophenol	20.0	10.67		ug/L		53	38 - 125
2-Picoline	20.0	2.835		ug/L		14	11 - 107
2-Toluidine	20.0	8.391		ug/L		42	38 - 124
3 & 4 Methylphenol	20.0	8.129		ug/L		41	35 - 116
3,3'-Dichlorobenzidine	20.0	14.57		ug/L		73	29 - 141
3,3'-Dimethylbenzidine	20.0	2.366	J *	ug/L		12	40 - 130
3-Methylcholanthrene	20.0	16.73		ug/L		84	20 - 130
3-Nitroaniline	20.0	10.92		ug/L		55	42 - 123
4,6-Dinitro-2-methylphenol	20.0	12.25		ug/L		61	12 - 157
4-Aminobiphenyl	20.0	10.58		ug/L		53	20 - 130
4-Bromophenyl phenyl ether	20.0	10.73		ug/L		54	40 - 126
4-Chloro-3-methylphenol	20.0	10.04		ug/L		50	40 - 119
4-Chloroaniline	20.0	8.273		ug/L		41	39 - 111
4-Chlorophenyl phenyl ether	20.0	10.85		ug/L		54	40 - 122
4-Nitroaniline	20.0	9.858		ug/L		49	42 - 125
4-Nitroquinoline-1-oxide	20.0	12.91		ug/L		65	20 - 130
7,12-Dimethylbenz(a)anthracene	20.0	13.82		ug/L		69	40 - 120
Acenaphthene	20.0	10.96		ug/L		55	41 - 116
Acenaphthylene	20.0	11.32		ug/L		57	41 - 118
Acetophenone	20.0	9.545		ug/L		48	23 - 175
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0	
Aniline	20.0	6.185		ug/L		31	31 - 100
Anthracene	20.0	12.27		ug/L		61	39 - 127
Benzo[a]anthracene	20.0	15.40		ug/L		77	40 - 129
Benzo[a]pyrene	20.0	16.15		ug/L		81	36 - 141
Benzo[b]fluoranthene	20.0	15.05		ug/L		75	34 - 139
Benzo[g,h,i]perylene	20.0	20.03		ug/L		100	32 - 141
Benzo[k]fluoranthene	20.0	15.54		ug/L		78	31 - 139
Benzyl alcohol	20.0	10.18		ug/L		51	37 - 102
Bis(2-chloroethoxy)methane	20.0	9.344		ug/L		47	36 - 113
Bis(2-chloroethyl)ether	20.0	9.836		ug/L		49	38 - 111
Bis(2-ethylhexyl) phthalate	20.0	15.23		ug/L		76	44 - 136
Butyl benzyl phthalate	20.0	15.83		ug/L		79	44 - 133
Chrysene	20.0	15.18		ug/L		76	41 - 124
Dibenz(a,h)anthracene	20.0	19.38		ug/L		97	35 - 143

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-132355/2-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dibenzofuran	20.0	10.92		ug/L		55	41 - 119
Diethyl phthalate	20.0	10.95		ug/L		55	41 - 125
Dimethyl phthalate	20.0	11.16		ug/L		56	42 - 123
Di-n-butyl phthalate	20.0	15.23		ug/L		76	41 - 133
Di-n-octyl phthalate	20.0	16.33		ug/L		82	34 - 145
Diphenyl ether	20.0	10.28		ug/L		51	40 - 130
Ethyl methanesulfonate	20.0	10.11		ug/L		51	40 - 127
Fluoranthene	20.0	15.28		ug/L		76	38 - 132
Fluorene	20.0	11.10		ug/L		55	41 - 121
Hexachlorobenzene	20.0	10.60		ug/L		53	39 - 128
Hexachlorobutadiene	20.0	10.26		ug/L		51	31 - 120
Hexachlorocyclopentadiene	20.0	11.57		ug/L		58	15 - 117
Hexachloroethane	20.0	10.14		ug/L		51	37 - 109
Hexachloropropene	20.0	9.994		ug/L		50	24 - 122
Indeno[1,2,3-cd]pyrene	20.0	19.63		ug/L		98	35 - 141
Isophorone	20.0	10.91		ug/L		55	40 - 115
Methyl methanesulfonate	20.0	9.092		ug/L		45	33 - 120
Naphthalene	20.0	10.50		ug/L		53	37 - 113
Nitrobenzene	20.0	10.24		ug/L		51	37 - 114
N-Nitro-o-toluidine	20.0	11.22		ug/L		56	40 - 120
N-Nitrosodiethylamine	20.0	10.97		ug/L		55	42 - 115
N-Nitrosodimethylamine	20.0	8.466		ug/L		42	28 - 126
N-Nitrosodi-n-butylamine	20.0	8.638		ug/L		43	34 - 122
N-Nitrosodi-n-propylamine	20.0	10.71		ug/L		54	38 - 117
N-Nitrosodiphenylamine	20.0	11.56		ug/L		58	40 - 127
N-Nitrosomethylethylamine	20.0	10.97		ug/L		55	41 - 108
N-Nitrosomorpholine	20.0	10.12		ug/L		51	32 - 115
N-Nitrosopiperidine	20.0	10.29		ug/L		51	39 - 115
N-Nitrosopyrrolidine	20.0	9.849		ug/L		49	36 - 121
p-Dimethylamino azobenzene	20.0	12.90		ug/L		65	38 - 124
Pentachlorobenzene	20.0	10.03		ug/L		50	40 - 123
Pentachloronitrobenzene	20.0	12.92		ug/L		65	40 - 120
Pentachlorophenol	20.0	11.88		ug/L		59	10 - 137
Phenacetin	20.0	14.45		ug/L		72	20 - 130
Phenanthrene	20.0	11.42		ug/L		57	39 - 126
Phenol	20.0	5.378		ug/L		27	15 - 106
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150
Pronamide	20.0	15.09		ug/L		75	25 - 120
Pyrene	20.0	12.61		ug/L		63	40 - 130
Pyridine	20.0	4.383		ug/L		22	16 - 135
Safrole, Total	20.0	10.76		ug/L		54	40 - 120
Aramite Peak 2	10.0	8.499		ug/L		85	35 - 130
Isosafrole Peak 1	3.20	<2.46	U	ug/L		51	40 - 120
Diallate Peak 2	5.20	2.885	J	ug/L		55	38 - 130
Isosafrole Peak 2	16.8	9.060		ug/L		54	40 - 120
Diallate Peak 1	14.8	8.787		ug/L		59	38 - 130
Aramite Peak 1	10.0	8.323		ug/L		83	35 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-132355/2-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 132355

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	66		31 - 132
2-Fluorobiphenyl	74		40 - 130
2-Fluorophenol (Surr)	46		21 - 114
Nitrobenzene-d5 (Surr)	63		37 - 130
Phenol-d5 (Surr)	33		16 - 117
p-Terphenyl-d14	101		20 - 141

Lab Sample ID: LCSD 860-132355/3-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	20.0	11.29		ug/L		56	41 - 117	8	30
1,2,4,5-Tetrachlorobenzene	20.0	10.87		ug/L		54	39 - 120	7	30
1,2,4-Trichlorobenzene	20.0	11.12		ug/L		56	34 - 117	8	30
1,2-Dichlorobenzene	20.0	11.57		ug/L		58	38 - 111	7	30
1,3,5-Trinitrobenzene	20.0	14.41		ug/L		72	35 - 128	16	30
1,3-Dichlorobenzene	20.0	11.62		ug/L		58	37 - 111	9	30
1,3-Dinitrobenzene	20.0	11.24		ug/L		56	36 - 131	1	30
1,4-Dichlorobenzene	20.0	11.33		ug/L		57	37 - 111	6	30
1,4-Naphthoquinone	20.0	11.36		ug/L		57	10 - 150	8	30
1-Naphthylamine	20.0	9.590		ug/L		48	40 - 120	6	30
2,2'-oxybis[1-chloropropane]	20.0	11.01		ug/L		55	10 - 150	5	30
2,3,4,6-Tetrachlorophenol	20.0	11.82		ug/L		59	33 - 132	11	30
2,4,5-Trichlorophenol	20.0	11.65		ug/L		58	39 - 125	7	30
2,4,6-Trichlorophenol	20.0	11.51		ug/L		58	42 - 125	8	30
2,4-Dichlorophenol	20.0	10.42		ug/L		52	38 - 120	6	30
2,4-Dimethylphenol	20.0	14.35		ug/L		72	39 - 117	15	30
2,4-Dinitrophenol	20.0	11.07		ug/L		55	13 - 152	12	30
2,4-Dinitrotoluene	20.0	13.73		ug/L		69	41 - 128	12	30
2,6-Dichlorophenol	20.0	10.72		ug/L		54	42 - 118	5	30
2,6-Dinitrotoluene	20.0	12.43		ug/L		62	42 - 127	8	30
2-Acetylaminofluorene	20.0	14.18		ug/L		71	40 - 130	20	30
2-Chloronaphthalene	20.0	10.59		ug/L		53	40 - 118	6	30
2-Chlorophenol	20.0	10.74		ug/L		54	41 - 108	10	30
2-Methylnaphthalene	20.0	11.80		ug/L		59	37 - 112	9	30
2-Methylphenol	20.0	10.25		ug/L		51	36 - 125	8	30
2-Naphthylamine	20.0	9.062		ug/L		45	40 - 120	16	30
2-Nitroaniline	20.0	10.39		ug/L		52	34 - 126	11	30
2-Nitrophenol	20.0	11.60		ug/L		58	38 - 125	8	30
2-Picoline	20.0	4.441	*1	ug/L		22	11 - 107	44	30
2-Toluidine	20.0	9.595		ug/L		48	38 - 124	13	30
3 & 4 Methylphenol	20.0	8.985		ug/L		45	35 - 116	10	30
3,3'-Dichlorobenzidine	20.0	12.74		ug/L		64	29 - 141	13	30
3,3'-Dimethylbenzidine	20.0	4.084	J *- *1	ug/L		20	40 - 130	53	30
3-Methylcholanthrene	20.0	13.43		ug/L		67	20 - 130	22	30
3-Nitroaniline	20.0	11.27		ug/L		56	42 - 123	3	30
4,6-Dinitro-2-methylphenol	20.0	14.15		ug/L		71	12 - 157	14	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-132355/3-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Aminobiphenyl	20.0	10.50		ug/L		52	20 - 130	1	30
4-Bromophenyl phenyl ether	20.0	11.59		ug/L		58	40 - 126	8	30
4-Chloro-3-methylphenol	20.0	11.09		ug/L		55	40 - 119	10	30
4-Chloroaniline	20.0	9.205		ug/L		46	39 - 111	11	30
4-Chlorophenyl phenyl ether	20.0	11.36		ug/L		57	40 - 122	5	30
4-Nitroaniline	20.0	10.13		ug/L		51	42 - 125	3	30
4-Nitroquinoline-1-oxide	20.0	10.97		ug/L		55	20 - 130	16	30
7,12-Dimethylbenz(a)anthracene	20.0	11.26		ug/L		56	40 - 120	20	30
Acenaphthene	20.0	12.01		ug/L		60	41 - 116	9	30
Acenaphthylene	20.0	11.98		ug/L		60	41 - 118	6	30
Acetophenone	20.0	10.56		ug/L		53	23 - 175	10	30
alpha,alpha-Dimethyl phenethylamine	20.0	<4.00	U	ug/L		0		NC	30
Aniline	20.0	8.583	*1	ug/L		43	31 - 100	32	30
Anthracene	20.0	12.83		ug/L		64	39 - 127	4	30
Benzo[a]anthracene	20.0	12.87		ug/L		64	40 - 129	18	30
Benzo[a]pyrene	20.0	13.24		ug/L		66	36 - 141	20	30
Benzo[b]fluoranthene	20.0	12.35		ug/L		62	34 - 139	20	30
Benzo[g,h,i]perylene	20.0	15.88		ug/L		79	32 - 141	23	30
Benzo[k]fluoranthene	20.0	12.42		ug/L		62	31 - 139	22	30
Benzyl alcohol	20.0	11.50		ug/L		58	37 - 102	12	30
Bis(2-chloroethoxy)methane	20.0	10.19		ug/L		51	36 - 113	9	30
Bis(2-chloroethyl)ether	20.0	10.99		ug/L		55	38 - 111	11	30
Bis(2-ethylhexyl) phthalate	20.0	12.49		ug/L		62	44 - 136	20	30
Butyl benzyl phthalate	20.0	12.99		ug/L		65	44 - 133	20	30
Chrysene	20.0	12.93		ug/L		65	41 - 124	16	30
Dibenz(a,h)anthracene	20.0	15.66		ug/L		78	35 - 143	21	30
Dibenzofuran	20.0	11.44		ug/L		57	41 - 119	5	30
Diethyl phthalate	20.0	11.50		ug/L		58	41 - 125	5	30
Dimethyl phthalate	20.0	11.90		ug/L		60	42 - 123	6	30
Di-n-butyl phthalate	20.0	14.02		ug/L		70	41 - 133	8	30
Di-n-octyl phthalate	20.0	13.65		ug/L		68	34 - 145	18	30
Diphenyl ether	20.0	11.12		ug/L		56	40 - 130	8	30
Ethyl methanesulfonate	20.0	10.89		ug/L		54	40 - 127	7	30
Fluoranthene	20.0	14.34		ug/L		72	38 - 132	6	30
Fluorene	20.0	11.65		ug/L		58	41 - 121	5	30
Hexachlorobenzene	20.0	11.22		ug/L		56	39 - 128	6	30
Hexachlorobutadiene	20.0	11.37		ug/L		57	31 - 120	10	30
Hexachlorocyclopentadiene	20.0	12.04		ug/L		60	15 - 117	4	30
Hexachloroethane	20.0	10.98		ug/L		55	37 - 109	8	30
Hexachloropropene	20.0	11.20		ug/L		56	24 - 122	11	30
Indeno[1,2,3-cd]pyrene	20.0	15.96		ug/L		80	35 - 141	21	30
Isophorone	20.0	12.09		ug/L		60	40 - 115	10	30
Methyl methanesulfonate	20.0	10.15		ug/L		51	33 - 120	11	30
Naphthalene	20.0	11.13		ug/L		56	37 - 113	6	30
Nitrobenzene	20.0	11.04		ug/L		55	37 - 114	7	30
N-Nitro-o-toluidine	20.0	11.90		ug/L		60	40 - 120	6	30
N-Nitrosodiethylamine	20.0	11.52		ug/L		58	42 - 115	5	30
N-Nitrosodimethylamine	20.0	9.550		ug/L		48	28 - 126	12	30

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-132355/3-A

Matrix: Water

Analysis Batch: 132390

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodi-n-butylamine	20.0	9.457		ug/L		47	34 - 122	9	30
N-Nitrosodi-n-propylamine	20.0	11.57		ug/L		58	38 - 117	8	30
N-Nitrosodiphenylamine	20.0	12.83		ug/L		64	40 - 127	10	30
N-Nitrosomethylethylamine	20.0	11.56		ug/L		58	41 - 108	5	30
N-Nitrosomorpholine	20.0	11.62		ug/L		58	32 - 115	14	30
N-Nitrosopiperidine	20.0	11.17		ug/L		56	39 - 115	8	30
N-Nitrosopyrrolidine	20.0	11.20		ug/L		56	36 - 121	13	30
p-Dimethylamino azobenzene	20.0	11.12		ug/L		56	38 - 124	15	30
Pentachlorobenzene	20.0	10.79		ug/L		54	40 - 123	7	30
Pentachloronitrobenzene	20.0	12.57		ug/L		63	40 - 120	3	30
Pentachlorophenol	20.0	11.59		ug/L		58	10 - 137	2	30
Phenacetin	20.0	12.08		ug/L		60	20 - 130	18	30
Phenanthrene	20.0	12.25		ug/L		61	39 - 126	7	30
Phenol	20.0	6.179		ug/L		31	15 - 106	14	30
p-Phenylene diamine	20.0	<10.0	U *	ug/L		0	1 - 150	NC	30
Pronamide	20.0	13.67		ug/L		68	25 - 120	10	30
Pyrene	20.0	11.60		ug/L		58	40 - 130	8	30
Pyridine	20.0	6.657	*1	ug/L		33	16 - 135	41	30
Safrrole, Total	20.0	11.33		ug/L		57	40 - 120	5	30
Aramite Peak 2	10.0	6.924		ug/L		69	35 - 130	20	30
Isosafrole Peak 1	3.20	<2.46	U	ug/L		57	40 - 120	12	30
Diallate Peak 2	5.20	3.045	J	ug/L		59	38 - 130	5	30
Isosafrole Peak 2	16.8	9.441		ug/L		56	40 - 120	4	30
Diallate Peak 1	14.8	9.249		ug/L		62	38 - 130	5	30
Aramite Peak 1	10.0	7.177		ug/L		72	35 - 130	15	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	73		31 - 132
2-Fluorobiphenyl	74		40 - 130
2-Fluorophenol (Surr)	49		21 - 114
Nitrobenzene-d5 (Surr)	67		37 - 130
Phenol-d5 (Surr)	36		16 - 117
p-Terphenyl-d14	85		20 - 141

Lab Sample ID: 860-61897-9 MS

Matrix: Water

Analysis Batch: 132390

Client Sample ID: MW-33-S

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.938	J	20.0	11.45		ug/L		53	41 - 117
1,2,4,5-Tetrachlorobenzene	<0.672	U	20.0	10.03		ug/L		50	39 - 120
1,2,4-Trichlorobenzene	<0.680	U	20.0	9.918		ug/L		50	34 - 117
1,2-Dichlorobenzene	<0.296	U	20.0	10.97		ug/L		55	38 - 111
1,3,5-Trinitrobenzene	<1.43	U	20.0	17.63		ug/L		88	70 - 130
1,3-Dichlorobenzene	<0.350	U	20.0	10.74		ug/L		54	37 - 111
1,3-Dinitrobenzene	<0.112	U	20.0	12.25		ug/L		61	36 - 131
1,4-Dichlorobenzene	<0.428	U	20.0	10.69		ug/L		53	37 - 111
1,4-Naphthoquinone	<1.85	U F1	20.0	11.41	F1	ug/L		57	70 - 130

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61897-9 MS

Matrix: Water

Analysis Batch: 132390

Client Sample ID: MW-33-S

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Naphthylamine	<0.232	U	20.0	9.518		ug/L		48	40 - 120
2,2'-oxybis[1-chloropropane]	<0.139	U	20.0	10.32		ug/L		52	32 - 110
2,3,4,6-Tetrachlorophenol	<0.174	U	20.0	13.93		ug/L		70	33 - 132
2,4,5-Trichlorophenol	<0.108	U	20.0	12.06		ug/L		60	39 - 125
2,4,6-Trichlorophenol	<0.135	U	20.0	11.61		ug/L		58	42 - 125
2,4-Dichlorophenol	<0.115	U	20.0	10.33		ug/L		52	38 - 120
2,4-Dimethylphenol	<0.148	U	20.0	13.42		ug/L		67	39 - 117
2,4-Dinitrophenol	<1.46	U	20.0	14.09		ug/L		70	13 - 152
2,4-Dinitrotoluene	<0.127	U	20.0	14.40		ug/L		72	41 - 128
2,6-Dichlorophenol	<0.126	U	20.0	9.965		ug/L		50	42 - 118
2,6-Dinitrotoluene	<0.199	U	20.0	13.25		ug/L		66	42 - 127
2-Acetylaminofluorene	<1.52	U	20.0	17.73		ug/L		89	70 - 130
2-Chloronaphthalene	<1.09	U	20.0	10.13		ug/L		51	40 - 118
2-Chlorophenol	<0.0135	U	20.0	10.34		ug/L		52	41 - 108
2-Methylnaphthalene	0.775	J	20.0	12.76		ug/L		60	37 - 112
2-Methylphenol	<0.159	U	20.0	10.04		ug/L		50	36 - 125
2-Naphthylamine	<0.595	U *-	20.0	9.041		ug/L		45	40 - 120
2-Nitroaniline	<0.163	U	20.0	13.45		ug/L		67	34 - 126
2-Nitrophenol	<0.135	U	20.0	11.05		ug/L		55	38 - 125
2-Picoline	<0.215	U *1	20.0	5.471		ug/L		27	11 - 107
2-Toluidine	<0.934	U F1	20.0	9.624	F1	ug/L		48	70 - 130
3 & 4 Methylphenol	<0.163	U	20.0	8.391		ug/L		42	35 - 116
3,3'-Dichlorobenzidine	<0.220	U	20.0	6.336		ug/L		32	29 - 141
3,3'-Dimethylbenzidine	<0.444	U *- F1 *1	20.0	0.6487	J F1	ug/L		3	70 - 130
3-Methylcholanthrene	<0.159	U	20.0	17.04		ug/L		85	20 - 130
3-Nitroaniline	<0.344	U	20.0	13.02		ug/L		65	42 - 123
4,6-Dinitro-2-methylphenol	<0.736	U	20.0	16.44		ug/L		82	12 - 157
4-Aminobiphenyl	<0.297	U	20.0	9.482		ug/L		47	20 - 130
4-Bromophenyl phenyl ether	<0.167	U	20.0	12.57		ug/L		63	40 - 126
4-Chloro-3-methylphenol	<0.157	U	20.0	12.03		ug/L		60	40 - 119
4-Chloroaniline	<0.149	U	20.0	8.619		ug/L		43	39 - 111
4-Chlorophenyl phenyl ether	<0.232	U	20.0	11.56		ug/L		58	40 - 122
4-Nitroaniline	<0.247	U	20.0	14.47		ug/L		72	42 - 125
4-Nitroquinoline-1-oxide	<2.15	U F1	20.0	13.49	F1	ug/L		67	70 - 130
7,12-Dimethylbenz(a)anthracene	<0.0610	U	20.0	13.84		ug/L		69	40 - 120
Acenaphthene	<0.208	U	20.0	11.58		ug/L		58	41 - 118
Acenaphthylene	<0.215	U	20.0	11.91		ug/L		60	41 - 116
Acetophenone	<0.225	U	20.0	11.06		ug/L		55	23 - 125
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	20.0	<4.00	U F1	ug/L		0	70 - 130
Aniline	<0.314	U *1	20.0	9.438		ug/L		47	31 - 120
Anthracene	<0.154	U	20.0	14.66		ug/L		73	39 - 127
Benzo[a]anthracene	<0.150	U	20.0	15.63		ug/L		78	40 - 129
Benzo[a]pyrene	<0.148	U	20.0	16.72		ug/L		84	36 - 141
Benzo[b]fluoranthene	<0.210	U	20.0	15.23		ug/L		76	34 - 139
Benzo[g,h,i]perylene	<0.143	U	20.0	20.44		ug/L		102	32 - 141
Benzo[k]fluoranthene	<0.166	U	20.0	15.24		ug/L		76	31 - 139
Benzyl alcohol	<4.50	U	20.0	10.68		ug/L		53	37 - 102
Bis(2-chloroethoxy)methane	<0.170	U	20.0	9.738		ug/L		49	36 - 113

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QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61897-9 MS

Matrix: Water

Analysis Batch: 132390

Client Sample ID: MW-33-S

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Bis(2-chloroethyl)ether	<0.278	U	20.0	10.12		ug/L		51	38 - 111	
Bis(2-ethylhexyl) phthalate	<0.225	U	20.0	16.55		ug/L		78	44 - 136	
Butyl benzyl phthalate	<0.150	U	20.0	17.17		ug/L		86	44 - 133	
Chrysene	<0.159	U	20.0	15.51		ug/L		78	41 - 124	
Dibenz(a,h)anthracene	<0.148	U	20.0	20.56		ug/L		103	35 - 143	
Dibenzofuran	<0.336	U	20.0	11.30		ug/L		56	41 - 119	
Diethyl phthalate	<0.118	U	20.0	12.71		ug/L		64	41 - 125	
Dimethyl phthalate	<0.143	U	20.0	12.20		ug/L		61	42 - 123	
Di-n-butyl phthalate	<0.800	U	20.0	18.04		ug/L		90	41 - 133	
Di-n-octyl phthalate	<0.169	U	20.0	16.59		ug/L		83	34 - 145	
Ethyl methanesulfonate	<1.38	U F1	20.0	10.72	F1	ug/L		54	70 - 130	
Fluoranthene	<0.148	U	20.0	17.44		ug/L		87	38 - 132	
Fluorene	<0.205	U	20.0	11.79		ug/L		59	41 - 121	
Hexachlorobenzene	<0.126	U	20.0	11.84		ug/L		59	39 - 128	
Hexachlorobutadiene	<0.252	U	20.0	10.51		ug/L		53	31 - 120	
Hexachlorocyclopentadiene	<0.431	U	20.0	11.33		ug/L		57	15 - 117	
Hexachloroethane	<0.140	U	20.0	10.31		ug/L		52	37 - 109	
Hexachloropropene	<0.213	U	20.0	10.13		ug/L		51		
Indeno[1,2,3-cd]pyrene	<0.852	U	20.0	20.24		ug/L		101	35 - 141	
Isophorone	<0.168	U	20.0	11.43		ug/L		57	40 - 115	
Methyl methanesulfonate	<0.0610	U F1	20.0	9.201	F1	ug/L		46	70 - 130	
Naphthalene	0.868	J	20.0	12.45		ug/L		58	37 - 113	
Nitrobenzene	<0.934	U	20.0	10.35		ug/L		52	37 - 114	
N-Nitro-o-toluidine	<1.31	U	20.0	13.93		ug/L		70	35 - 130	
N-Nitrosodiethylamine	<1.54	U F1	20.0	11.48	F1	ug/L		57	70 - 130	
N-Nitrosodimethylamine	<0.126	U	20.0	8.751		ug/L		44	28 - 127	
N-Nitrosodi-n-butylamine	<1.54	U	20.0	9.299		ug/L		46	34 - 122	
N-Nitrosodi-n-propylamine	<0.161	U	20.0	11.45		ug/L		57	38 - 117	
N-Nitrosodiphenylamine	<0.155	U	20.0	14.38		ug/L		72	40 - 127	
N-Nitrosomethylethylamine	<0.199	U	20.0	10.69		ug/L		53	28 - 126	
N-Nitrosomorpholine	<1.44	U F1	20.0	11.39	F1	ug/L		57	70 - 130	
N-Nitrosopiperidine	<1.44	U	20.0	11.13		ug/L		56	39 - 115	
N-Nitrosopyrrolidine	<1.38	U	20.0	10.19		ug/L		51	36 - 121	
p-Dimethylamino azobenzene	<0.0579	U	20.0	13.88		ug/L		69	38 - 124	
Pentachlorobenzene	<1.18	U	20.0	10.27		ug/L		51	40 - 123	
Pentachloronitrobenzene	<1.27	U	20.0	14.83		ug/L		74	40 - 120	
Pentachlorophenol	<0.441	U	20.0	16.16		ug/L		81	10 - 137	
Phenacetin	<1.32	U	20.0	15.71		ug/L		79	20 - 130	
Phenanthrene	<0.176	U	20.0	13.92		ug/L		70	39 - 126	
Phenol	0.653	J	20.0	6.461		ug/L		29	15 - 106	
p-Phenylene diamine	<10.0	U *- F1	20.0	<10.0	U F1	ug/L		0	1 - 150	
Pronamide	<1.39	U	20.0	17.94		ug/L		90	25 - 120	
Pyrene	<0.159	U	20.0	14.49		ug/L		72	40 - 130	
Pyridine	1.45	J B *1	20.0	6.695		ug/L		26	16 - 135	
Safrole, Total	<0.183	U F1	20.0	10.76	F1	ug/L		54	70 - 130	
Aramite Peak 2	<2.74	U	10.0	8.807		ug/L		88		
Isosafrole Peak 1	<2.46	U F1	3.20	<2.46	U F1	ug/L		0	70 - 130	
Diallate Peak 2	<0.602	U F1	5.20	3.414	J F1	ug/L		66	70 - 130	
Isosafrole Peak 2	<2.12	U F1	16.8	9.154	F1	ug/L		54	70 - 130	

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61897-9 MS

Matrix: Water

Analysis Batch: 132390

Client Sample ID: MW-33-S

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diallate Peak 1	<0.675	U	14.8	10.63		ug/L		72	70 - 130
Aramite Peak 1	<0.670	U	10.0	9.166		ug/L		92	

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	86		31 - 132
2-Fluorobiphenyl	72		40 - 130
2-Fluorophenol (Surr)	48		21 - 114
Nitrobenzene-d5 (Surr)	66		37 - 130
Phenol-d5 (Surr)	35		16 - 117
p-Terphenyl-d14	106		20 - 141

Lab Sample ID: 860-61897-9 MS

Matrix: Water

Analysis Batch: 132535

Client Sample ID: MW-33-S

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diphenyl ether	320		20.0	324.2	4	ug/L		23	

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	81		31 - 132
2-Fluorobiphenyl	83		40 - 130
2-Fluorophenol (Surr)	52		21 - 114
Nitrobenzene-d5 (Surr)	73		37 - 130
Phenol-d5 (Surr)	26		16 - 117
p-Terphenyl-d14	131		20 - 141

Lab Sample ID: 860-61897-9 MSD

Matrix: Water

Analysis Batch: 132390

Client Sample ID: MW-33-S

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	0.938	J	20.0	13.46		ug/L		63	41 - 117	16	30
1,2,4,5-Tetrachlorobenzene	<0.672	U	20.0	11.21		ug/L		56	39 - 120	11	30
1,2,4-Trichlorobenzene	<0.680	U	20.0	11.93		ug/L		60	34 - 117	18	30
1,2-Dichlorobenzene	<0.296	U	20.0	12.33		ug/L		62	38 - 111	12	30
1,3,5-Trinitrobenzene	<1.43	U	20.0	18.37		ug/L		92	70 - 130	4	30
1,3-Dichlorobenzene	<0.350	U	20.0	12.43		ug/L		62	37 - 111	15	30
1,3-Dinitrobenzene	<0.112	U	20.0	14.77		ug/L		74	36 - 131	19	30
1,4-Dichlorobenzene	<0.428	U	20.0	11.71		ug/L		59	37 - 111	9	30
1,4-Naphthoquinone	<1.85	U F1	20.0	13.72	F1	ug/L		69	70 - 130	18	30
1-Naphthylamine	<0.232	U	20.0	9.992		ug/L		50	40 - 120	5	30
2,2'-oxybis[1-chloropropane]	<0.139	U	20.0	11.93		ug/L		60	32 - 110	15	30
2,3,4,6-Tetrachlorophenol	<0.174	U	20.0	16.25		ug/L		81	33 - 132	15	30
2,4,5-Trichlorophenol	<0.108	U	20.0	14.96		ug/L		75	39 - 125	21	30
2,4,6-Trichlorophenol	<0.135	U	20.0	13.66		ug/L		68	42 - 125	16	30
2,4-Dichlorophenol	<0.115	U	20.0	12.29		ug/L		61	38 - 120	17	30
2,4-Dimethylphenol	<0.148	U	20.0	16.19		ug/L		81	39 - 117	19	30
2,4-Dinitrophenol	<1.46	U	20.0	15.92		ug/L		80	13 - 152	12	30

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61897-9 MSD

Matrix: Water

Analysis Batch: 132390

Client Sample ID: MW-33-S

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dinitrotoluene	<0.127	U	20.0	17.33		ug/L		87	41 - 128	18	30
2,6-Dichlorophenol	<0.126	U	20.0	11.97		ug/L		60	42 - 118	18	30
2,6-Dinitrotoluene	<0.199	U	20.0	14.76		ug/L		74	42 - 127	11	30
2-Acetylaminofluorene	<1.52	U	20.0	20.42		ug/L		102	70 - 130	14	30
2-Chloronaphthalene	<1.09	U	20.0	11.56		ug/L		58	40 - 118	13	30
2-Chlorophenol	<0.0135	U	20.0	12.14		ug/L		61	41 - 108	16	30
2-Methylnaphthalene	0.775	J	20.0	13.53		ug/L		64	37 - 112	6	30
2-Methylphenol	<0.159	U	20.0	11.46		ug/L		57	36 - 125	13	30
2-Naphthylamine	<0.595	U *	20.0	9.365		ug/L		47	40 - 120	4	30
2-Nitroaniline	<0.163	U	20.0	13.33		ug/L		67	34 - 126	1	30
2-Nitrophenol	<0.135	U	20.0	13.46		ug/L		67	38 - 125	20	30
2-Picoline	<0.215	U *1	20.0	6.145		ug/L		31	11 - 107	12	30
2-Toluidine	<0.934	U F1	20.0	9.964	F1	ug/L		50	70 - 130	3	30
3 & 4 Methylphenol	<0.163	U	20.0	10.16		ug/L		51	35 - 116	19	30
3,3'-Dichlorobenzidine	<0.220	U	20.0	7.014		ug/L		35	29 - 141	10	30
3,3'-Dimethylbenzidine	<0.444	U *- F1 *1	20.0	0.6681	J F1	ug/L		3	70 - 130	3	30
3-Methylcholanthrene	<0.159	U	20.0	19.34		ug/L		97	20 - 130	13	30
3-Nitroaniline	<0.344	U	20.0	14.98		ug/L		75	42 - 123	14	30
4,6-Dinitro-2-methylphenol	<0.736	U	20.0	18.42		ug/L		92	12 - 157	11	30
4-Aminobiphenyl	<0.297	U	20.0	9.707		ug/L		49	20 - 130	2	30
4-Bromophenyl phenyl ether	<0.167	U	20.0	13.67		ug/L		68	40 - 126	8	30
4-Chloro-3-methylphenol	<0.157	U	20.0	13.45		ug/L		67	40 - 119	11	30
4-Chloroaniline	<0.149	U	20.0	9.432		ug/L		47	39 - 111	9	30
4-Chlorophenyl phenyl ether	<0.232	U	20.0	13.26		ug/L		66	40 - 122	14	30
4-Nitroaniline	<0.247	U	20.0	14.72		ug/L		74	42 - 125	2	30
4-Nitroquinoline-1-oxide	<2.15	U F1	20.0	14.26		ug/L		71	70 - 130	6	30
7,12-Dimethylbenz(a)anthracene	<0.0610	U	20.0	15.35		ug/L		77	40 - 120	10	30
Acenaphthene	<0.208	U	20.0	13.50		ug/L		67	41 - 118	15	30
Acenaphthylene	<0.215	U	20.0	13.55		ug/L		68	41 - 116	13	30
Acetophenone	<0.225	U	20.0	13.02		ug/L		65	23 - 125	16	30
alpha,alpha-Dimethyl phenethylamine	<4.00	U F1	20.0	<4.00	U F1	ug/L		0	70 - 130	NC	
Aniline	<0.314	U *1	20.0	9.828		ug/L		49	31 - 120	4	30
Anthracene	<0.154	U	20.0	16.04		ug/L		80	39 - 127	9	30
Benzo[a]anthracene	<0.150	U	20.0	17.45		ug/L		87	40 - 129	11	30
Benzo[a]pyrene	<0.148	U	20.0	18.25		ug/L		91	36 - 141	9	30
Benzo[b]fluoranthene	<0.210	U	20.0	16.41		ug/L		82	34 - 139	7	30
Benzo[g,h,i]perylene	<0.143	U	20.0	23.01		ug/L		115	32 - 141	12	30
Benzo[k]fluoranthene	<0.166	U	20.0	17.39		ug/L		87	31 - 139	13	30
Benzyl alcohol	<4.50	U	20.0	13.04		ug/L		65	37 - 102	20	30
Bis(2-chloroethoxy)methane	<0.170	U	20.0	11.76		ug/L		59	36 - 113	19	30
Bis(2-chloroethyl)ether	<0.278	U	20.0	12.11		ug/L		61	38 - 111	18	30
Bis(2-ethylhexyl) phthalate	<0.225	U	20.0	17.49		ug/L		83	44 - 136	6	30
Butyl benzyl phthalate	<0.150	U	20.0	18.54		ug/L		93	44 - 133	8	30
Chrysene	<0.159	U	20.0	17.02		ug/L		85	41 - 124	9	30
Dibenz(a,h)anthracene	<0.148	U	20.0	22.29		ug/L		111	35 - 143	8	30
Dibenzofuran	<0.336	U	20.0	13.13		ug/L		66	41 - 119	15	30
Diethyl phthalate	<0.118	U	20.0	14.77		ug/L		74	41 - 125	15	30
Dimethyl phthalate	<0.143	U	20.0	14.13		ug/L		71	42 - 123	15	30

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61897-9 MSD

Matrix: Water

Analysis Batch: 132390

Client Sample ID: MW-33-S

Prep Type: Total/NA

Prep Batch: 132355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Di-n-butyl phthalate	<0.800	U	20.0	19.43		ug/L		97	41 - 133	7	30
Di-n-octyl phthalate	<0.169	U	20.0	17.62		ug/L		88	34 - 145	6	30
Ethyl methanesulfonate	<1.38	U F1	20.0	12.09	F1	ug/L		60	70 - 130	12	30
Fluoranthene	<0.148	U	20.0	18.94		ug/L		95	38 - 132	8	30
Fluorene	<0.205	U	20.0	13.48		ug/L		67	41 - 121	13	30
Hexachlorobenzene	<0.126	U	20.0	13.37		ug/L		67	39 - 128	12	30
Hexachlorobutadiene	<0.252	U	20.0	11.94		ug/L		60	31 - 120	13	30
Hexachlorocyclopentadiene	<0.431	U	20.0	13.28		ug/L		66	15 - 117	16	30
Hexachloroethane	<0.140	U	20.0	11.78		ug/L		59	37 - 109	13	30
Hexachloropropene	<0.213	U	20.0	12.32		ug/L		62		20	30
Indeno[1,2,3-cd]pyrene	<0.852	U	20.0	22.44		ug/L		112	35 - 141	10	30
Isophorone	<0.168	U	20.0	13.26		ug/L		66	40 - 115	15	30
Methyl methanesulfonate	<0.0610	U F1	20.0	10.62	F1	ug/L		53	70 - 130	14	30
Naphthalene	0.868	J	20.0	13.24		ug/L		62	37 - 113	6	30
Nitrobenzene	<0.934	U	20.0	12.03		ug/L		60	37 - 114	15	30
N-Nitro-o-toluidine	<1.31	U	20.0	15.30		ug/L		76	35 - 130	9	30
N-Nitrosodiethylamine	<1.54	U F1	20.0	13.17	F1	ug/L		66	70 - 130	14	30
N-Nitrosodimethylamine	<0.126	U	20.0	9.955		ug/L		50	28 - 127	13	30
N-Nitrosodi-n-butylamine	<1.54	U	20.0	10.93		ug/L		55	34 - 122	16	30
N-Nitrosodi-n-propylamine	<0.161	U	20.0	13.90		ug/L		70	38 - 117	19	30
N-Nitrosodiphenylamine	<0.155	U	20.0	15.79		ug/L		79	40 - 127	9	30
N-Nitrosomethylethylamine	<0.199	U	20.0	12.76		ug/L		64	28 - 126	18	30
N-Nitrosomorpholine	<1.44	U F1	20.0	13.91		ug/L		70	70 - 130	20	30
N-Nitrosopiperidine	<1.44	U	20.0	12.57		ug/L		63	39 - 115	12	30
N-Nitrosopyrrolidine	<1.38	U	20.0	11.92		ug/L		60	36 - 121	16	30
p-Dimethylamino azobenzene	<0.0579	U	20.0	15.35		ug/L		77	38 - 124	10	30
Pentachlorobenzene	<1.18	U	20.0	12.11		ug/L		61	40 - 123	16	30
Pentachloronitrobenzene	<1.27	U	20.0	16.34		ug/L		82	40 - 120	10	30
Pentachlorophenol	<0.441	U	20.0	17.52		ug/L		88	10 - 137	8	30
Phenacetin	<1.32	U	20.0	17.14		ug/L		86	20 - 130	9	30
Phenanthrene	<0.176	U	20.0	15.49		ug/L		77	39 - 126	11	30
Phenol	0.653	J	20.0	7.808		ug/L		36	15 - 106	19	30
p-Phenylene diamine	<10.0	U *- F1	20.0	<10.0	U F1	ug/L		0	1 - 150	NC	50
Pronamide	<1.39	U	20.0	19.60		ug/L		98	25 - 120	9	30
Pyrene	<0.159	U	20.0	15.96		ug/L		80	40 - 130	10	30
Pyridine	1.45	J B *1	20.0	7.739		ug/L		31	16 - 135	14	30
Safrole, Total	<0.183	U F1	20.0	12.40	F1	ug/L		62	70 - 130	14	30
Aramite Peak 2	<2.74	U	10.0	9.936		ug/L		99		12	30
Isosafrole Peak 1	<2.46	U F1	3.20	<2.46	U F1	ug/L		0	70 - 130	NC	30
Diallate Peak 2	<0.602	U F1	5.20	3.962	J	ug/L		76	70 - 130	15	30
Isosafrole Peak 2	<2.12	U F1	16.8	10.62	F1	ug/L		63	70 - 130	15	30
Diallate Peak 1	<0.675	U	14.8	11.71		ug/L		79	70 - 130	10	30
Aramite Peak 1	<0.670	U	10.0	10.30		ug/L		103		12	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	97		31 - 132
2-Fluorobiphenyl	83		40 - 130
2-Fluorophenol (Surr)	58		21 - 114

Eurofins Houston

QC Sample Results

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 860-61897-9 MSD

Matrix: Water

Analysis Batch: 132390

Client Sample ID: MW-33-S

Prep Type: Total/NA

Prep Batch: 132355

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Nitrobenzene-d5 (Surr)	76		37 - 130
Phenol-d5 (Surr)	40		16 - 117
p-Terphenyl-d14	114		20 - 141

Lab Sample ID: 860-61897-9 MSD

Matrix: Water

Analysis Batch: 132535

Client Sample ID: MW-33-S

Prep Type: Total/NA

Prep Batch: 132355

	Sample	Sample	Spike	MSD	MSD				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Diphenyl ether	320		20.0	364.8	4	ug/L		226		12

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	83		31 - 132
2-Fluorobiphenyl	96		40 - 130
2-Fluorophenol (Surr)	60		21 - 114
Nitrobenzene-d5 (Surr)	84		37 - 130
Phenol-d5 (Surr)	36		16 - 117
p-Terphenyl-d14	141		20 - 141

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

GC/MS VOA

Analysis Batch: 132020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61897-1	TB11(111523)	Total/NA	Water	8260D	
860-61897-2	MW-31-S	Total/NA	Water	8260D	
860-61897-3	MW-32-S	Total/NA	Water	8260D	
860-61897-4	MW-31-D	Total/NA	Water	8260D	
860-61897-5	MW-32-D	Total/NA	Water	8260D	
860-61897-6	MW-30-S	Total/NA	Water	8260D	
860-61897-7	MW-27-S	Total/NA	Water	8260D	
860-61897-8	MW-27-D	Total/NA	Water	8260D	
860-61897-9	MW-33-S	Total/NA	Water	8260D	
MB 860-132020/9	Method Blank	Total/NA	Water	8260D	
LCS 860-132020/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-132020/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-61897-9 MS	MW-33-S	Total/NA	Water	8260D	
860-61897-9 MSD	MW-33-S	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 132138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61897-2	MW-31-S	Total/NA	Water	3511	
860-61897-3	MW-32-S	Total/NA	Water	3511	
860-61897-4	MW-31-D	Total/NA	Water	3511	
860-61897-5	MW-32-D	Total/NA	Water	3511	
860-61897-6	MW-30-S	Total/NA	Water	3511	
860-61897-7	MW-27-S	Total/NA	Water	3511	
860-61897-8	MW-27-D	Total/NA	Water	3511	
860-61897-9	MW-33-S	Total/NA	Water	3511	
MB 860-132138/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-132138/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-132138/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
860-61897-9 MS	MW-33-S	Total/NA	Water	3511	
860-61897-9 MSD	MW-33-S	Total/NA	Water	3511	

Analysis Batch: 132198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61897-2	MW-31-S	Total/NA	Water	8270E	132138
860-61897-3	MW-32-S	Total/NA	Water	8270E	132138
860-61897-4	MW-31-D	Total/NA	Water	8270E	132138
860-61897-5	MW-32-D	Total/NA	Water	8270E	132138
860-61897-6	MW-30-S	Total/NA	Water	8270E	132138
860-61897-8	MW-27-D	Total/NA	Water	8270E	132138
860-61897-9	MW-33-S	Total/NA	Water	8270E	132138
MB 860-132138/1-A	Method Blank	Total/NA	Water	8270E	132138
LCS 860-132138/2-A	Lab Control Sample	Total/NA	Water	8270E	132138
LCSD 860-132138/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	132138
860-61897-9 MS	MW-33-S	Total/NA	Water	8270E	132138
860-61897-9 MSD	MW-33-S	Total/NA	Water	8270E	132138

Analysis Batch: 132329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61897-7	MW-27-S	Total/NA	Water	8270E	132138

Eurofins Houston

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

GC/MS Semi VOA

Prep Batch: 132355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61897-2	MW-31-S	Total/NA	Water	3510C	
860-61897-3	MW-32-S	Total/NA	Water	3510C	
860-61897-4	MW-31-D	Total/NA	Water	3510C	
860-61897-5	MW-32-D	Total/NA	Water	3510C	
860-61897-6	MW-30-S	Total/NA	Water	3510C	
860-61897-7	MW-27-S	Total/NA	Water	3510C	
860-61897-8	MW-27-D	Total/NA	Water	3510C	
860-61897-9 - DL	MW-33-S	Total/NA	Water	3510C	
860-61897-9	MW-33-S	Total/NA	Water	3510C	
MB 860-132355/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-132355/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-132355/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
860-61897-9 MS	MW-33-S	Total/NA	Water	3510C	
860-61897-9 MSD	MW-33-S	Total/NA	Water	3510C	

Analysis Batch: 132390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61897-9	MW-33-S	Total/NA	Water	8270E LL	132355
MB 860-132355/1-A	Method Blank	Total/NA	Water	8270E LL	132355
LCS 860-132355/2-A	Lab Control Sample	Total/NA	Water	8270E LL	132355
LCSD 860-132355/3-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	132355
860-61897-9 MS	MW-33-S	Total/NA	Water	8270E LL	132355
860-61897-9 MSD	MW-33-S	Total/NA	Water	8270E LL	132355

Analysis Batch: 132535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61897-2	MW-31-S	Total/NA	Water	8270E LL	132355
860-61897-3	MW-32-S	Total/NA	Water	8270E LL	132355
860-61897-4	MW-31-D	Total/NA	Water	8270E LL	132355
860-61897-5	MW-32-D	Total/NA	Water	8270E LL	132355
860-61897-6	MW-30-S	Total/NA	Water	8270E LL	132355
860-61897-7	MW-27-S	Total/NA	Water	8270E LL	132355
860-61897-8	MW-27-D	Total/NA	Water	8270E LL	132355
860-61897-9 - DL	MW-33-S	Total/NA	Water	8270E LL	132355
860-61897-9 MS	MW-33-S	Total/NA	Water	8270E LL	132355
860-61897-9 MSD	MW-33-S	Total/NA	Water	8270E LL	132355

Analysis Batch: 132899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61897-2 - RE	MW-31-S	Total/NA	Water	8270E LL	132922
860-61897-3 - RE	MW-32-S	Total/NA	Water	8270E LL	132922
860-61897-4 - RE	MW-31-D	Total/NA	Water	8270E LL	132922
860-61897-5 - RE	MW-32-D	Total/NA	Water	8270E LL	132922
860-61897-6 - RE	MW-30-S	Total/NA	Water	8270E LL	132922
860-61897-7 - RE	MW-27-S	Total/NA	Water	8270E LL	132922
860-61897-8 - RE	MW-27-D	Total/NA	Water	8270E LL	132922
860-61897-9 - RE	MW-33-S	Total/NA	Water	8270E LL	132922
MB 860-132922/1-A	Method Blank	Total/NA	Water	8270E LL	132922
LCS 860-132922/2-A	Lab Control Sample	Total/NA	Water	8270E LL	132922
LCSD 860-132922/3-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	132922

Eurofins Houston

QC Association Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

GC/MS Semi VOA

Prep Batch: 132922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61897-2 - RE	MW-31-S	Total/NA	Water	3510C	
860-61897-3 - RE	MW-32-S	Total/NA	Water	3510C	
860-61897-4 - RE	MW-31-D	Total/NA	Water	3510C	
860-61897-5 - RE	MW-32-D	Total/NA	Water	3510C	
860-61897-6 - RE	MW-30-S	Total/NA	Water	3510C	
860-61897-7 - RE	MW-27-S	Total/NA	Water	3510C	
860-61897-8 - RE	MW-27-D	Total/NA	Water	3510C	
860-61897-9 - RE	MW-33-S	Total/NA	Water	3510C	
860-61897-9 - DL	MW-33-S	Total/NA	Water	3510C	
MB 860-132922/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-132922/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-132922/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 133080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61897-9 - DL	MW-33-S	Total/NA	Water	8270E LL	132922

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: TB11(111523)

Lab Sample ID: 860-61897-1

Date Collected: 11/15/23 00:00

Matrix: Water

Date Received: 11/20/23 13:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	132020	11/21/23 14:20	NA	EET HOU

Client Sample ID: MW-31-S

Lab Sample ID: 860-61897-2

Date Collected: 11/15/23 09:04

Matrix: Water

Date Received: 11/20/23 13:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	132020	11/21/23 18:26	NA	EET HOU
Total/NA	Prep	3511			34 mL	2 mL	132138	11/21/23 13:11	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	132198	11/21/23 20:29	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132535	11/27/23 14:39	EM	EET HOU
Total/NA	Prep	3510C	RE		250 mL	1.00 mL	132922	11/29/23 09:36	DR	EET HOU
Total/NA	Analysis	8270E LL	RE	1	1 mL	1 mL	132899	11/29/23 15:59	EM	EET HOU

Client Sample ID: MW-32-S

Lab Sample ID: 860-61897-3

Date Collected: 11/15/23 09:07

Matrix: Water

Date Received: 11/20/23 13:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	132020	11/21/23 16:02	NA	EET HOU
Total/NA	Prep	3511			34.1 mL	2 mL	132138	11/21/23 13:11	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	132198	11/21/23 20:59	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132535	11/27/23 14:59	EM	EET HOU
Total/NA	Prep	3510C	RE		250 mL	1.00 mL	132922	11/29/23 09:36	DR	EET HOU
Total/NA	Analysis	8270E LL	RE	1	1 mL	1 mL	132899	11/29/23 16:20	EM	EET HOU

Client Sample ID: MW-31-D

Lab Sample ID: 860-61897-4

Date Collected: 11/15/23 09:56

Matrix: Water

Date Received: 11/20/23 13:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	132020	11/21/23 18:46	NA	EET HOU
Total/NA	Prep	3511			35.9 mL	2 mL	132138	11/21/23 13:11	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	132198	11/21/23 21:28	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132535	11/27/23 15:20	EM	EET HOU
Total/NA	Prep	3510C	RE		250 mL	1.00 mL	132922	11/29/23 09:36	DR	EET HOU
Total/NA	Analysis	8270E LL	RE	1	1 mL	1 mL	132899	11/29/23 16:40	EM	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-32-D

Lab Sample ID: 860-61897-5

Date Collected: 11/15/23 10:00

Matrix: Water

Date Received: 11/20/23 13:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	132020	11/21/23 15:42	NA	EET HOU
Total/NA	Prep	3511			34.5 mL	2 mL	132138	11/21/23 13:11	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	132198	11/21/23 21:58	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132535	11/27/23 15:41	EM	EET HOU
Total/NA	Prep	3510C	RE		250 mL	1.00 mL	132922	11/29/23 09:36	DR	EET HOU
Total/NA	Analysis	8270E LL	RE	1	1 mL	1 mL	132899	11/29/23 17:01	EM	EET HOU

Client Sample ID: MW-30-S

Lab Sample ID: 860-61897-6

Date Collected: 11/15/23 11:18

Matrix: Water

Date Received: 11/20/23 13:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	132020	11/21/23 19:07	NA	EET HOU
Total/NA	Prep	3511			34.4 mL	2 mL	132138	11/21/23 13:11	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	132198	11/21/23 22:28	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132535	11/27/23 16:02	EM	EET HOU
Total/NA	Prep	3510C	RE		250 mL	1.00 mL	132922	11/29/23 09:36	DR	EET HOU
Total/NA	Analysis	8270E LL	RE	1	1 mL	1 mL	132899	11/29/23 17:22	EM	EET HOU

Client Sample ID: MW-27-S

Lab Sample ID: 860-61897-7

Date Collected: 11/15/23 11:45

Matrix: Water

Date Received: 11/20/23 13:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	132020	11/21/23 15:22	NA	EET HOU
Total/NA	Prep	3511			35.1 mL	2 mL	132138	11/21/23 13:11	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	132329	11/22/23 13:23	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132535	11/27/23 16:23	EM	EET HOU
Total/NA	Prep	3510C	RE		250 mL	1.00 mL	132922	11/29/23 09:36	DR	EET HOU
Total/NA	Analysis	8270E LL	RE	1	1 mL	1 mL	132899	11/29/23 17:43	EM	EET HOU

Client Sample ID: MW-27-D

Lab Sample ID: 860-61897-8

Date Collected: 11/15/23 13:22

Matrix: Water

Date Received: 11/20/23 13:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	132020	11/21/23 15:01	NA	EET HOU
Total/NA	Prep	3511			34.9 mL	2 mL	132138	11/21/23 13:11	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	132198	11/21/23 23:28	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132535	11/27/23 16:44	EM	EET HOU

Eurofins Houston

Lab Chronicle

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Client Sample ID: MW-27-D

Lab Sample ID: 860-61897-8

Date Collected: 11/15/23 13:22

Matrix: Water

Date Received: 11/20/23 13:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	RE		250 mL	1.00 mL	132922	11/29/23 09:36	DR	EET HOU
Total/NA	Analysis	8270E LL	RE	1	1 mL	1 mL	132899	11/29/23 18:04	EM	EET HOU

Client Sample ID: MW-33-S

Lab Sample ID: 860-61897-9

Date Collected: 11/15/23 13:51

Matrix: Water

Date Received: 11/20/23 13:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	132020	11/21/23 14:41	NA	EET HOU
Total/NA	Prep	3511			35.1 mL	2 mL	132138	11/21/23 13:11	TH	EET HOU
Total/NA	Analysis	8270E		1	1 mL	1 mL	132198	11/21/23 23:58	JM	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL		1	1 mL	1 mL	132390	11/22/23 19:07	PXS	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	132355	11/22/23 13:06	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	10	1 mL	1 mL	132535	11/27/23 17:12	EM	EET HOU
Total/NA	Prep	3510C	RE		250 mL	1.00 mL	132922	11/29/23 09:37	DR	EET HOU
Total/NA	Analysis	8270E LL	RE	1	1 mL	1 mL	132899	11/29/23 18:25	EM	EET HOU
Total/NA	Prep	3510C	DL		250 mL	1.00 mL	132922	11/29/23 09:37	DR	EET HOU
Total/NA	Analysis	8270E LL	DL	10	1 mL	1 mL	133080	11/30/23 14:44	EM	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

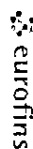
Client: Ashland LLC
Project/Site: Hercules Hattiesburg, MS

Job ID: 860-61897-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-61897-1	TB11(111523)	Water	11/15/23 00:00	11/20/23 13:28
860-61897-2	MW-31-S	Water	11/15/23 09:04	11/20/23 13:28
860-61897-3	MW-32-S	Water	11/15/23 09:07	11/20/23 13:28
860-61897-4	MW-31-D	Water	11/15/23 09:56	11/20/23 13:28
860-61897-5	MW-32-D	Water	11/15/23 10:00	11/20/23 13:28
860-61897-6	MW-30-S	Water	11/15/23 11:18	11/20/23 13:28
860-61897-7	MW-27-S	Water	11/15/23 11:45	11/20/23 13:28
860-61897-8	MW-27-D	Water	11/15/23 13:22	11/20/23 13:28
860-61897-9	MW-33-S	Water	11/15/23 13:51	11/20/23 13:28

4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

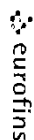


eN format B

Client Information Client Contact: Mr. Antonio Cardoso Company: ARCADIS US Inc Address: 4300 West Cypress Street, Suite 450 City: Tampa State, Zip: FL 33607 Phone: _____ Email: antonio.cardoso@arcadis.com Project Name: Hercules Hattiesburg, MS Site: _____		Sampler: <i>hmmh</i> Phone: <i>225-805-8346</i> Email: Sachin.Kudchadkar@eurofins.com PMSID: _____		Carrier Tracking No(s): _____ State of Origin: _____ Page: <i>178</i> Job #: _____	
Due Date Requested: _____ TAT Requested (days): _____ Compliance Project: ☐ Yes ☐ No PO #: _____ WO #: _____ Project #: 86006035 SSO#: _____		Analysis Requested 8270E_SIM_ID_D5 1,4 Dioxane 8270E_LL Appendix 9 SVOCs 8260D Appendix 9 VOCs			
Sample Identification Sample Date: _____ Sample Time: _____ Sample Type (C=Comp, G=Grab): _____ Matrix (Specify: _____) Preservation Code: _____		Field Filtered Sample (Yes or No) _____ Perform MS/MSD (Yes or No) _____ 8270E_SIM_ID_D5 1,4 Dioxane 8270E_LL Appendix 9 SVOCs 8260D Appendix 9 VOCs			
Sample ID: <i>MS-11 (11/5/23)</i> Sample Date: <i>11/5/23</i> Sample Time: _____ Sample Type: _____ Matrix: _____ Preservation Code: _____		Temp: <i>14.6</i> Corrected Temp: <i>14.6</i> IR ID: HOU-369			
Sample ID: <i>MS-31-S</i> Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____ Preservation Code: _____		Total Number of containers: _____ Special Instructions/Note: _____			
Sample ID: <i>MS-32-S</i> Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____ Preservation Code: _____		Total Number of containers: _____ Special Instructions/Note: _____			
Sample ID: <i>MS-31-D</i> Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____ Preservation Code: _____		Total Number of containers: _____ Special Instructions/Note: _____			
Sample ID: <i>MS-32-D</i> Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____ Preservation Code: _____		Total Number of containers: _____ Special Instructions/Note: _____			
Sample ID: <i>MS-30-S</i> Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____ Preservation Code: _____		Total Number of containers: _____ Special Instructions/Note: _____			
Sample ID: <i>MS-27-S</i> Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____ Preservation Code: _____		Total Number of containers: _____ Special Instructions/Note: _____			
Sample ID: <i>MS-27-D</i> Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____ Preservation Code: _____		Total Number of containers: _____ Special Instructions/Note: _____			
Sample ID: <i>MS-33-S (1)</i> Sample Date: <i>11</i> Sample Time: <i>1351</i> Sample Type: _____ Matrix: _____ Preservation Code: _____		Total Number of containers: _____ Special Instructions/Note: _____			
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiologicals Deliverable Requested: ☐ I, II, III, IV, Other (specify) _____		Sample Disposal (A fe): _____ ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements: <i>(1) Includes MS/MSD</i>			
Empty Kit Relinquished by: _____ Date: _____ Time: _____		Method of Shipment: _____			
Relinquished by: <i>[Signature]</i> Date/Time: <i>11-16-23 / 1500</i> Company: <i>AMARC</i>		Received by: <i>Felix</i> Date/Time: _____ Company: _____			
Relinquished by: <i>Felix</i> Date/Time: _____ Company: _____		Received by: <i>Mumun</i> Date/Time: <i>11/20/23 13 28</i> Company: _____			
Custody Seals Intact: ☐ Yes ☐ No Custody Seal No. _____		Cooler Temperature(s) °C and Other Remarks: _____			

4147 Giesenhart Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record



11/30/2023

Client Information		Sample #		Lab No.	
Client Contact: Mr. Antonio Cardoso		Phone: 228-805-8346		Lab No. 860-23568-8445.1	
Company: ARCADIS US Inc		PWSID:		Page: 1771	
Address: 4300 West Cypress Street Suite 450		Due Date Requested:		Carrier Tracking No(s):	
City: Tampa		TAT Requested (days):		State of Origin:	
State, Zip: FL 33607		Compliance Project: ☐ Yes ☒ No		Job #:	
Phone:		PO #:		Preservation Codes:	
Email: antonio.cardoso@arcadis.com		WFO #:		A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Acetone H Acetic Acid I Ice J DI Water K EDTA L EDA M Hexane N None O Acetone P Na2OAS Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4.5 X Trim Z other (specify)	
Project Name: Hercules Hattiesburg, MS		Project #:		Other:	
Site: SSO#:		SSOW#:		Special Instructions/Note:	
Sample Identification		Sample Date		Sample Type	
TB-11 (11/5/23)		11/5/23		Sample Type (C=Comp, G=Grab, D=Distill, W=Water)	
MW-31-S		0904		Matrix (W=Water, S=Solid, D=Distill, W=Water)	
MW-32-S		0907		Preservation Code:	
MW-31-D		0906		Field Filtered Sample (Yes or No)	
MW-32-D		1000		Perform MS/MSD (Yes or No)	
MW-30-S		1118		8270E_SIM_ID_D5 1,4 Dioxane	
MW-27-D		1335		8270E_LL Appendix 9 SVOCs	
MW-33-S (1)		1351		8260D Appendix 9 VOCs	
				Temp: 14.6 Corrected Temp: 14.6	
				IR ID: HOU-369	
				Total Number of containers	
				Special Instructions/Note:	
				Preservation Codes:	
				A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Acetone H Acetic Acid I Ice J DI Water K EDTA L EDA M Hexane N None O Acetone P Na2OAS Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4.5 X Trim Z other (specify)	
Possible Hazard Identification		Sample Disposal (A Fe)		Method of Shipment	
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		☐ Return To Client ☐ Disposal By Lab ☐ Archive For		if samples are retained longer than 1 month	
Deliverable Requested I II III IV Other (specify)		Special Instructions/QC Requirements:		Months	
Empty Kit Relinquished by:		Date:		Method of Shipment	
Relinquished by:		Date/Time: 11-16-23 / 1500		Company: ARCADIS	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact:		Custody Seal No.:		Coder Temperature(s) °C and Other Remarks:	
☒ Yes ☐ No					

Login Sample Receipt Checklist

Client: Ashland LLC

Job Number: 860-61897-1

Login Number: 61897

List Source: Eurofins Houston

List Number: 1

Creator: Jimenez, Nicanor

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	