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2011 Second Semiannual Groundwater Monitoring Report

Hattiesburg, Mississippi
MDEQ AI No. 2022

23 January 2012

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1. Introduction

Hercules Incorporated (Hercules) commissioned Eco-Systems, Inc. (Eco-Systems) to conduct groundwater and surface water monitoring at the Hattiesburg, Mississippi, facility (Figure 1). The sampling was conducted in accordance with the *Corrective Action Plan Revision 01* (CAP) prepared by Groundwater & Environmental Services, Inc., dated January 20, 2005. The CAP was approved by the Mississippi Department of Environmental Quality (MDEQ) in a letter dated January 25, 2005, and modified by MDEQ in an August 18, 2006, letter. The eight quarterly monitoring events specified in the CAP were completed in May 2007 and discussed in the second Annual Monitoring Report (Eco-Systems August 2007). In accordance with MDEQ's approval of Hercules' recommendation in the 2007 Annual Monitoring Report, surface water and groundwater monitoring is currently conducted on a semiannual basis and consists of water level gauging and analysis of select samples for volatile organic compounds (VOCs) (semiannually) and Delnav compounds (annually).

This report describes sampling activities and analytical results for the second semiannual monitoring event for 2011. During this event, water levels were measured at 23 monitoring wells and 13 piezometers, surface water samples were collected from six locations in Greens Creek, and groundwater samples were collected from 23 monitoring wells. However, as coordinated with MDEQ in December 2011, samples were not analyzed for Delnav during this annual event due to low volume of laboratory standard remaining at Bonner Analytical Testing Company and the additional investigation that is proposed in this area as part of the response to the U.S. Environmental Protection Agency's (USEPA's) May 9, 2011, Resource Conservation and Recovery Act 3013(a) Administrative Order (Administrative Order). Future Delnav sampling events will continue to be coordinated with MDEQ.

The site layout, location of monitoring wells and piezometers, and location of Greens Creek are illustrated on Figure 2. A summary of the 2011 semiannual monitoring program is provided on Table 1. Sampling results are compared to MDEQ Tier 1 Target Remedial Goals (TRGs) as referenced in the Final Regulations Governing Brownfields Voluntary Cleanup and Redevelopment in Mississippi (amended 28 February 2002).

2. Regulatory Background

After site investigations conducted under the MDEQ Voluntary Evaluation Program were approved by MDEQ, Hercules submitted the 2005 CAP. The 2005 CAP proposed a combination of institutional controls and monitored natural attenuation of

groundwater and surface water. In January 2008, Hercules and MDEQ entered into a Restricted Use Agreed Order (RUAO; No. 5349 07) to restrict on-site land and groundwater use and document the compliance monitoring program and corrective action requirements described in the 2005 CAP. In conjunction with the RUAO, Hercules executed a Notice of Land Use Restrictions documenting that soil and groundwater contained benzene, chlorobenzene, carbon tetrachloride, chloroform, 1,1,2-dichloroethane, and toluene in excess of MDEQ TRGs. Since 2007, Hercules has conducted groundwater and surface water sampling to comply with the RUAO. Routine monitoring reports summarizing the results of each sampling event have been submitted to MDEQ.

The compliance monitoring program has been modified several times since submittal of the 2005 CAP. In 2006, the sampling frequency for Delnav was reduced from quarterly to annually. In 2007, the sampling frequency for groundwater and surface water was reduced from quarterly to semiannually. In 2009, five wells associated with assessment of the Impoundment Basin (IB) were installed and added to the sampling program. The monitoring program for groundwater and surface water is currently conducted on a semiannual basis and consists of water level gauging and analysis of select samples for VOCs (semiannually) and Delnav (annually).

The CAP included a contingency plan outlining specific actions required in each of the monitored areas if chemicals of concern (CoCs) are detected at concentrations in excess of MDEQ TRGs in select downgradient wells for three consecutive sampling events (Table 1).

3. Field Activities

3.1 Groundwater Elevation Measurements

On December 5, 2011, Eco-Systems personnel collected static groundwater levels from the monitoring wells and piezometers at the site (Table 2). These water level measurements were used to calculate groundwater elevations and evaluate general groundwater flow directions.

3.2 Groundwater Sample Collection

Groundwater sampling was conducted December 6 through 9, 2011. Prior to collecting groundwater samples, the monitoring wells were purged using a low flow/low stress sampling method with a peristaltic pump. Purging was conducted until pH, specific

conductance, and turbidity stabilized. As documented in Section 3.2.1.1.2 of the USEPA Science and Ecosystem Support Division Field Branches Quality System and Technical Procedures (SESD Guidance), stabilization occurs when, for at least three consecutive measurements, pH remains constant within 0.1 Standard Unit, specific conductance varies no more than approximately 5 percent, and turbidity has either stabilized or is below 10 Nephelmetric Turbidity Units. The water quality field parameters were measured with calibrated instruments and recorded in the field book along with the cumulative amount of water evacuated and time of batch parameter testing. Groundwater Collection Logs are attached as Appendix A.

Once field parameters stabilized, groundwater was collected using disposable Teflon bailers and transferred into new, clean sample containers supplied by the analytical laboratory. During groundwater sample collection activities, field replicates were collected for quality assurance and quality control (QA/QC). Each replicate sample was collected by placing alternating aliquots into the parent sample container and each replicate sample container until the containers were filled.

The wells least likely to contain detectable constituent concentrations based upon historical data are generally sampled first. Sample tubing and bailers used during purging and sample collection activities were disposed of after use. Subsequent to sampling, the sample containers were labeled, placed on ice, the cooler sealed and shipped to the designated off-site laboratory for analysis. Chain-of-custody documentation accompanied each sample cooler. Personnel involved in sampling used new, clean, disposable gloves for each sample point. All non-disposable sampling equipment was decontaminated as described in Section 3.5.

During this event, groundwater samples were collected from permanent Monitoring Wells MW-2 through MW-24 in accordance with Table 1. Groundwater samples were shipped via overnight courier to TestAmerica Laboratories, Inc. (TestAmerica) in Savannah, Georgia, for analysis of Appendix IX VOCs according to USEPA Method 8260B.

3.3 Surface Water Sample Collection

On December 5, 2011, six surface water samples were collected from the previously established sampling stations along Greens Creek, CM-00 through CM-05. Samples were collected beginning with the most downstream location (CM-05) and proceeding upstream to each successive sampling location. Surface water samples were collected directly into clean, laboratory-supplied, unpreserved sample containers by

placing the lip of the sample container into the creek at each sampling station. The filled sample containers were labeled, packed, and shipped in the same manner as the groundwater samples discussed in Section 3.2 for analysis of Appendix IX VOCs according to USEPA Method 8260B.

3.4 Quality Assurance/Quality Control

For QA/QC purposes, field duplicate, matrix spike/matrix spike duplicate (MS/MSD), equipment rinsate, equipment blank (field blank), and trip blank samples were submitted for analysis. QA/QC samples were labeled, stored, and shipped to TestAmerica in the same manner as groundwater and surface water samples. QA/QC samples were analyzed for the same constituents as groundwater and surface water samples.

Two duplicate groundwater samples were collected from Monitoring Wells MW-8 (DUPA-120711) and MW-19 (DUPB-120811). The duplicate groundwater samples were collected in alternating aliquots that were placed in each replicate bottle until each bottle was filled.

Two MS/MSD samples were collected from Monitoring Wells MW-8 and MW-22.

Five equipment rinsate sample (RS1-120611, RS2-120611, RS3-120711, RS4-120811, and RS5-120911) were collected during groundwater sampling activities. Because new, disposable tubing was used at each well location, the groundwater equipment rinsate samples were prepared by pouring deionized water over the decontaminated water level indicator probe and collecting the rinsate in laboratory-supplied containers.

Three equipment blank (field blank) samples (EB1-120611, EB2-120711, and EB3-120811) were collected during groundwater sampling activities to test the potential cross-contamination from the laboratory-supplied deionized water. These samples were collected by pouring deionized water directly into laboratory-supplied containers.

One trip blank sample was placed in each sample cooler submitted for analysis to test for potential cross-contamination between samples during shipment. A total of five trip blank samples were submitted between December 5 and December 9, 2011.

3.5 Decontamination

In general, groundwater sampling equipment that would contact the groundwater sample was single-use, disposable equipment. Re-usable groundwater sampling equipment decontamination (e.g., water level indicator probe) was accomplished by the following procedure:

1) Phosphate-free, detergent wash;

2) Potable water rinse;

3) Deionized water rinse;

4) Isopropanol rinse; and

5) Organic-free water rinse or air dry.

If it was necessary to store or transport decontaminated equipment, the decontaminated equipment was placed in either a new, disposable plastic bag or wrapped in new, clean aluminum foil.

3.6 Other Procedures

Procedures for sample collection, sample containerization and packing, sample shipment, cross-contamination control, drummed material disposal, field documentation, chain-of-custody, data review, and other work items not specifically covered in this document were conducted in accordance with the USEPA SESD Guidance.

4. Results

All groundwater and surface water samples collected from the Hercules site were analyzed for Appendix IX VOCs according to USEPA Method 8260B.

Laboratory analytical reports for the samples collected during this monitoring event are included in Appendix C and summarized in Tables 3 through 5.

4.1 Groundwater Elevation and Flow Direction

The potentiometric surface map prepared from the December 5, 2011, groundwater elevations illustrates that groundwater in the uppermost, saturated interval beneath the site tends to follow the surface topography (Figure 3). In the former production areas located in the southeastern portion of the site, the potentiometric surface indicates the presence of a groundwater divide, which trends from southwest to northeast. Groundwater located to the northwest of the divide generally moves in a northwesterly direction toward Greens Creek and groundwater southeast of the divide generally moves in a southeasterly direction. On the north side of Greens Creek, the potentiometric surface indicates that groundwater in the uppermost, saturated interval generally moves in a southerly direction toward Greens Creek. Greens Creek enters the site at the western property boundary and flows in an easterly direction across the northern portion of the site.

4.2 Analytical Results

Concentrations of VOCs in groundwater remain above the MDEQ TRGs in Wells MW-8, MW-13, MW-17, MW-19, MW-21, MW-22, and MW-23 (Figure 4). As observed during previous monitoring events, the predominant VOCs detected in groundwater above TRGs include benzene, carbon tetrachloride, chlorobenzene, chloroform, and toluene. Additionally, chloroform was detected at concentrations above MDEQ TRGs in the surface water samples collected at locations CM-00, CM-01, and CM-02.

An evaluation of the analytical data for each facility area is provided in the following sections. Concentration trend graphs for select wells are provided as Appendix C. In some cases, laboratory dilution caused reporting limits to exceed TRGs for select constituents (for example, in the samples collected from MW-8, MW-17, MW-21, and MW-23 where multiple VOCs were detected at concentrations above MDEQ TRGs). Finally, it should be noted that the laboratory method detection limit for bromodichloromethane (0.25 microgram per liter [µg/L]) was greater than the respective MDEQ TRG (0.168 µg/L) for all samples collected.

4.2.1 Sludge Pits

Groundwater monitoring in the sludge pit area is conducted via sampling of five monitoring wells. Monitoring Wells MW-2 and MW-3 are located north of the sludge pits in historically upgradient positions. Monitoring Wells MW-4, MW-10, and MW-11

are located south of the sludge pits in historically downgradient positions. No VOCs were detected at concentrations above MDEQ TRGs in the sludge pit area.

Chlorobenzene was detected in Well MW-4 at a concentration below the MDEQ TRG. Chlorobenzene has not been detected in MW-4 since 2002; however, the laboratory reporting limit for chlorobenzene was elevated above the TRG for past sampling events and therefore potential detections below 1.0 µg/L could not be verified. No other VOCs were detected in samples collected from sludge pit area Monitoring Wells MW-2, MW-3, MW-4, MW-10, or MW-11. Based on current and historical analytical results, VOCs are not migrating from the sludge pits at concentrations above TRGs.

4.2.2 Greens Creek

The surface water monitoring network consists of five surface water locations along Greens Creek. Surface water location CM-00 is located along the western property boundary in the farthest upstream position. CM-01 through CM-05 are positioned progressively more downstream toward the east where the creek exits the property. Chloroform was detected at concentrations above the MDEQ TRG in the surface water samples collected at CM-00, CM-01, and CM-02 (locations upstream of the sludge pits) and benzene was detected below the MDEQ TRG at surface water sample location CM-03. No other VOCs were detected in any of the remaining surface water samples.

Chloroform has been historically detected at CM-00 and CM-01 at concentrations above TRGs. Although chloroform was not previously detected at CM-02, the laboratory reporting limit for chloroform was elevated above the TRG for the past sampling events and therefore potential detections below 1.0 µg/L could not be verified. Benzene has been historically detected at all surface water locations except CM-00 and the only instance where benzene exceeded the TRG of 5 µg/L was in November 2006 at location CM-01.

Based on the current and historical analytical results, VOCs in excess of TRGs are not migrating from the site via Greens Creek to off-site properties.

4.2.3 Former Landfill

Groundwater monitoring of the former landfill area is conducted using six monitoring wells. Monitoring Wells MW-8 and MW-13 are located south and east of the former

landfill in historically upgradient positions. Monitoring Wells MW-5, MW-6, MW-12, and MW-14 are located north of the former landfill in historically downgradient positions. VOCs were detected at concentrations above MDEQ TRGs in upgradient Wells MW-8 and MW-13. VOCs were detected at concentrations below MDEQ TRGs in downgradient Wells MW-5 and MW-14, and no VOCs were detected in samples collected from downgradient Wells MW-6 or MW-12.

In samples collected from upgradient Well MW-8, benzene, carbon tetrachloride, chlorobenzene, chloroform, and methylene chloride persist at concentrations above MDEQ TRGs. Ethylbenzene, toluene, and total xylenes were detected in MW-8 at concentrations below the respective TRGs, and laboratory dilution caused reporting limits for many of the remaining VOCs to exceed TRGs for the sample collected from MW-8.

In the sample collected from upgradient Well MW-13, benzene, carbon tetrachloride, and chloroform persist at concentrations above MDEQ TRGs. Acetone, chlorobenzene, cis-1,2-dichloroethene, 1-1-dichloroethene, ethylbenzene, tetrachloroethene, and total xylenes were detected in MW-13 at concentrations below their respective TRGs and all remaining VOCs were below the reporting limit.

No VOCs were detected in the samples collected from MW-6 or MW-12. Acetone was detected in MW-5 and MW-14 at concentrations below the respective MDEQ TRG, and chlorobenzene was detected in MW-5 at a concentration below the MDEQ TRG. All remaining VOCs were below the reporting limit. Both acetone and chlorobenzene were historically detected in these wells.

The absence of elevated VOC concentrations in groundwater samples in downgradient wells indicates that VOCs are not migrating from the landfill at concentrations above TRGs. It should also be noted that many of the constituents detected “below TRGs” in Wells MW-5, MW-8, MW-13, and MW-14 had concentrations above the laboratory method detection limits but below the standard laboratory reporting limits and were therefore qualified as approximated values (represented by “J” qualifier in Table 3 and Appendix C).

4.2.4 Eastern Plant Area

Monitoring Wells MW-18 and MW-19, which are located east of the plant buildings, were installed as part of the CAP to serve as “Groundwater area” compliance monitoring wells. Potentiometric information has not indicated that these wells are part

of the previously defined area of groundwater containing VOCs; therefore, Monitoring Wells MW-18 and MW-19 are discussed separately.

No VOCs were detected in MW-18 at concentrations above their respective TRGs. Benzene, chlorobenzene, 1,2-dichloropropane, 1,1-dichloroethene, ethylbenzene, trichloroethene, and total xylenes were detected at concentrations below their respective TRGs. All remaining VOCs were below the reporting limit.

Concentrations of benzene and chloroform above their respective TRGs were detected in samples collected from Monitoring Well MW-19. Acetone, carbon tetrachloride, chlorobenzene, 1,1-dichloroethene, ethylbenzene, tetrachloroethene, toluene, and total xylenes were detected in samples collected from Monitoring Well MW-19 at concentrations below their respective TRGs. All remaining VOCs were below the reporting limit.

It should also be noted that many of the constituents detected "below TRGs" in Wells MW-18 and MW-19 had concentrations above the laboratory method detection limits but below the standard laboratory reporting limits and were therefore qualified as approximated values (represented by a "J" qualifier in Table 3 and Appendix C).

4.2.5 Impoundment Basin

Monitoring Wells MW-20, MW-21, MW-22, MW-23, and MW-24 are located in the vicinity of the IB. These wells were installed and initially sampled in September 2009 as part of a pre-closure investigation of the former IB. Well MW-20 is located west of the IB in an upgradient position. Wells MW-23 and MW-24 are located east of the IB in downgradient positions. Wells MW-21 and MW-22 are located north and south of the IB, crossgradient to the predominant groundwater flow direction. VOCs were detected at concentrations above MDEQ TRGs in Wells MW-21, MW-22, and MW-23. VOCs were detected at concentrations below TRGs in upgradient Well MW-20 and farthest downgradient Well MW-24.

Benzene, chlorobenzene, and ethylbenzene were detected at concentrations below their respective TRGs in Well MW-20. Chlorobenzene was detected at a concentration below the TRG in Well MW-24. All remaining VOCs were below reporting limits. It should be noted that the laboratory method detection limit for bromodichloromethane was greater than the MDEQ TRG for all samples.

Benzene, chlorobenzene, chloroform, 1-1-dichloroethene, methylene chloride, methyl isobutyl ketone, tetrachloroethene, and toluene were detected at concentrations greater than their respective TRGs in the sample collected from Monitoring Well MW-21. Acetone was detected in MW-21 at a concentration less than the TRG. All remaining VOCs were detected below reporting limits; however, sample dilution caused the reporting limits for many of the remaining VOCs to be greater than the applicable TRGs.

Benzene and chloroform were detected at a concentration greater than their respective TRGs in the sample collected from Monitoring Well MW-22. Acetone, chlorobenzene, ethylbenzene, methyl isobutyl ketone, styrene, and toluene were detected at concentrations less than their applicable TRGs and all remaining parameters were below the reporting limit.

Concentrations of acetone, benzene, chloroform, methylene chloride, methyl isobutyl ketone, and toluene were detected above their respective TRGs in downgradient Well MW-23. Carbon disulfide, chlorobenzene, and methyl ethyl ketone were detected in MW-23 at concentrations less than their respective TRGs. All remaining VOCs were detected below the laboratory reporting limit; however, sample dilution caused the reporting limits for many of the remaining VOCs to be greater than the applicable TRGs.

4.2.6 General Groundwater

The monitoring well network for the groundwater area consists of Monitoring Wells MW-7, MW-8, MW-9, MW-15, MW-16, and MW-17 in the vicinity of landfill area and point of compliance Wells MW-18 and MW-19 along the eastern property boundary. VOCs were detected at concentrations above TRGs in Wells MW-8, MW 17, and MW-19. Concentrations of VOCs were detected below TRGs in Wells MW-9, MW-15, MW-16, and MW-18. No VOCs were detected in Well MW-7.

No VOCs were detected above reporting limits in Well MW-7. It should be noted that the laboratory method detection limit for bromodichloromethane was greater than the MDEQ TRG for all samples.

Benzene, chlorobenzene, and 1,1-dichloroethene were detected at concentrations below TRGs in Well MW-9, and acetone was detected at concentrations below TRGs in Wells MW-15 and MW-16. The remaining VOCs for each of these three wells were

below reporting limits. VOC results for MW-18 (also below TRGs) were discussed previously in Section 4.2.4.

Benzene, carbon tetrachloride, chlorobenzene, chloroform, and toluene were detected in Well MW-17 at concentrations above applicable TRGs. cis-1,2-Dichloroethene, ethylbenzene, and total xylenes were detected in Well MW-17 at concentrations below their respective TRGs, and laboratory dilution for matrix interference caused reporting limits for the remaining VOCs to exceed TRGs. VOC results for MW-8 and MW-19 (also above TRGs) were discussed previously in Sections 4.2.3 and 4.2.4, respectively.

4.3 Quality Assurance/Quality Control Sample Analytical Results

Analytical reports for the QA/QC samples are included in Appendix C and summarized in Table 6. A discussion of the QA/QC sample results is included below.

4.3.1 Field Duplicates

Duplicate samples were collected from Wells MW-8 (DUPA-120711) and MW-19 (DUPB-120811). The relative percent difference (RPD) for the MW-8/DUP-120711 sample pair ranged from 0 to 8 percent. The RPD for the MW-19/DUP-120811 sample pair ranged from 0 to 14 percent. No constituents had an RPD greater than 14 percent between the parent and duplicate samples.

4.3.2 Rinsate Samples

Five rinsate samples (RS1-120611, RS2-120611, RS3-120711, RS4-120811, and RS5-120911) were collected during this sampling event. As shown on Table 6, no VOCs were detected in any of the rinsate samples.

4.3.3 Equipment Blank Samples

Three equipment blank (field blanks) samples were collected (EB1-120611, EB2-120711, and EB3-120811) during this sampling event. As shown in Table 6, no VOCs were detected in any of the equipment blank samples.

4.3.4 Trip Blanks

Five trip blank samples were submitted to TestAmerica in coolers containing samples for VOC analysis. VOCs were not detected in any of the trip blank samples.

5. Recommendations

As of this reporting period, CoC concentrations have not changed at the Site to warrant implementation of the contingency measures. The next semiannual sampling event will be conducted in July 2012 in accordance with the 2012 monitoring program summary presented in Table 6. Due to the proximity of Well MW-19 to Providence Street and additional investigation that is proposed in this area as part of the response to USEPA's May 9, 2011, Resource Conservation and Recovery Act 3013(a) Administrative Order, Hercules proposes to coordinate future routine RUAO sampling events with the implementation of the proposed activities. Coordination will result in optimization of sampling activities, facilitating data comparability, and conservation of the Delnav laboratory standards. During the July 2012 event, samples collected from Wells MW-2 through MW-24 will be analyzed for Appendix IX VOCs.

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Tables

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Table 1. 2011 Groundwater and Surface Water Monitoring Program, 2011 Second Semiannual Groundwater Monitoring Report, Hercules Incorporated, Hattiesburg, Mississippi.

Monitoring Location	Sample Classification	2011 1st Semiannual Event		2011 2nd Semiannual Event	
		MDEQ-Required Sampling	Supplemental Sampling	MDEQ-Required Sampling	
Sludge Pits Groundwater					
MW-2	Upgradient	VOCs*	Appendix IX	VOCs	--
MW-3	Upgradient	VOCs	--	VOCs	--
MW-4	**Downgradient**	VOCs*	Appendix IX	VOCs	~~Delnav~~[1]
MW-10	**Downgradient**	VOCs	--	VOCs	--
MW-11	**Downgradient**	VOCs	--	VOCs	--
Landfill Groundwater					
MW-5	**Downgradient**	VOCs	--	VOCs	--
MW-6	Downgradient	VOCs	--	VOCs	--
MW-12	**Downgradient**	VOCs*	Appendix IX	VOCs	--
MW-13	Upgradient	VOCs*	Appendix IX	VOCs	~~Delnav~~[1]
MW-14	**Downgradient**	VOCs	--	VOCs	~~Delnav~~[1]
Groundwater					
MW-7	Upgradient	VOCs	--	VOCs	--
MW-8	Downgradient	VOCs*	Appendix IX	VOCs	~~Delnav~~[1]
MW-9	Upgradient	VOCs	--	VOCs	--
MW-15	Downgradient	VOCs	--	VOCs	~~Delnav~~[1]
MW-16	Downgradient	VOCs	--	VOCs	~~Delnav~~[1]
MW-17	Upgradient	VOCs*	Appendix IX	VOCs	~~Delnav~~[1]
MW-18	Point of Compliance	VOCs	--	VOCs	--
MW-19	Point of Compliance	VOCs*	Appendix IX	VOCs	--
IB Basin Groundwater					
MW-20	Upgradient	VOCs	--	VOCs	--
MW-21	Crossgradient	VOCs	--	VOCs	--
MW-22	Crossgradient	VOCs	--	VOCs	--
MW-23	Downgradient	VOCs*	Appendix IX	VOCs	--
MW-24	Downgradient	VOCs	--	VOCs	--
Greens Creek Surface Water					
CM-00	Upgradient SW	VOCs	--	VOCs	--
CM-01	Upgradient SW	VOCs	--	VOCs	--
CM-02	Upgradient SW	VOCs	--	VOCs	--
CM-03	**Downgradient SW**	VOCs	--	VOCs	--
CM-04	**Downgradient SW**	VOCs	--	VOCs	--
CM-05	**Downgradient SW**	VOCs	--	VOCs	--

Wells shown in **bold** font are documented as contingency/"trigger" wells in the 2005 Corrective Action Plan.
VOCs - Volatile Organic Compounds per 40 CFR 264 Appendix IX via Method SW846-8260.
Appendix IX - Complete Appendix IX constituent list (VOCs, SVOCs, Pesticides/PCBs, Herbicides, Dioxans/Furans, Metals, Cyanide, and Sulfide) per 40 CFR 264 via SW846 approved methods.
* - VOCs will be an included subset of the Appendix IX "Additional Sampling".
Delnav - Dioxathion (cis- and trans-) and Dioxenethion via Method SW846-3510/8321, HPLC.
[1] - Delnav was not analyzed during the 2011 2nd Semiannual Event as approved by MDEQ.

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Table 2. Groundwater Elevation Data, December 5, 2011, 2011 Second Semiannual Groundwater Monitoring Report, Hercules Incorporated, Hattiesburg, Mississippi.

Well No.	Top of Casing Elevation (ft msl)	Water Depth (ft btoc)	Groundwater Elevation (ft msl)
Permanent Monitoring Wells			
MW-1	174.12	NA	NA
MW-2	160.07	6.98	153.09
MW-3	160.03	8.06	151.97
MW-4	159.75	11.62	148.13
MW-5	160.99	10.74	150.25
MW-6	174.05	9.87	164.18
MW-7	183.96	15.74	168.22
MW-8	179.99	15.68	164.31
MW-9	181.97	13.49	168.48
MW-10	159.88	12.02	147.86
MW-11	157.18	8.80	148.38
MW-12	162.17	9.29	152.88
MW-13	175.23	10.04	165.19
MW-14	169.23	15.75	153.48
MW-15	172.21	20.71	151.50
MW-16	175.62	17.67	157.95
MW-17	186.13	18.94	167.19
MW-18	165.31	6.62	158.69
MW-19	172.25	12.12	160.13
MW-20	168.62	7.36	161.26
MW-21	163.66	3.54	160.12
MW-22	167.62	7.35	160.27
MW-23	162.38	4.10	158.28
MW-24	164.98	8.59	156.39
Piezometers			
TP-1	Destroyed	NA	NA
TP-2	171.72	12.42	159.30
TP-3	169.74	10.26	159.48
TP-4	163.64	10.43	153.21
TP-5	160.54	Location not accessible	Location not accessible
TP-6	158.63	9.55	149.08
TP-7	167.17	10.00	157.17
TP-8	183.79	15.84	167.95
TP-9	Destroyed	NA	NA
TP-10	179.69	15.50	164.19
TP-11	162.26	11.51	150.75
TP-12	159.95	12.20	147.75
TP-13	156.99	8.56	148.43
TP-14	162.59	6.12	156.47
TP-16	179.72	14.19	165.53
TP-17	182.71	17.62	165.09
Greens Creek Staff Gauges			
SG-1	Destroyed	NA	NA
SG-2	Destroyed	NA	NA
SG-3	Destroyed	NA	NA
SG-4	Destroyed	NA	NA

ft btoc - feet below top of casing.
ft msl - feet mean sea level.
NA - Not Available.

Table 3. Summary of Groundwater VOC Analytical Results (2002 through 2011), 2011 Second Semiannual Groundwater Monitoring Report, Hercules Incorporated, Hattiesburg, Mississippi.

Location	Date	Concentrations in µg/L																																						
		Acetone	Benzene	Bromodichlorometh	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachlorid	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	cis-1,2-dichloroethe	1,2-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Ethylbenzene	Methylene Chloride	Methyl Ethyl Ketone	Methyl Isobutyl Keto	Styrene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Total Xylenes	Bromobenzene	2-Chlorotoluene	4-Chlorotoluene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Naphthalene	1,2,3-Trichlorobenze	1,2,4-Trichlorobenze	1,2,4-Trimethylbenz	1,3,5-Trimethylbenz	p-Isopropyltoluene	Dibromochlorometh	Isopropylbenzene
MDEQ	GW	608	5	0.168	8.48	8.52	1040	5	100	3.64	1.43	0.155	70	5	5	7	700	5	1910	139	100	5	100	5	2	10000	--	--	--	600	5.48	75	6.2	--	7	12.3	12.3	--	0.13	679
MW-02	Aug-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	**32**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	< 1.0	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-03	Aug-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**7.5**	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	**54**	< 10.0	< 1.0	**65**	< 1.0	< **39**	**1.2**	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	< 1.0	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-04	Dec-02	ND	**14**	ND	ND	ND	- -	**10.00**	**1.81**	**63**	**1.72**	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.38**	ND	ND	ND	ND	ND	ND	**1.26**
	Feb-03	NA	< 10.0	< 10.0	< 10.0	< 10.0	- -	< 10.0	< 10.0	< 12.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 13.0	NA	NA	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 15.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	B **34.4**	B **45.9**	B **9.79**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	Aug-03	NA	< 1.0	< 1.0	< 1.0	< 5.0	- -	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Aug-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.6**	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	**68**	< 1.0	**21**	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	< 1.0	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	J **0.53**	< 1.0	< 1.0	< 0.14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-05	Aug-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	**1.3**	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	**1.8**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	**1.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	**60**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	**52**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	**1.6**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	**85**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	**27**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	J **14**	< 1.0	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	J **0.90**	< 1.0	< 1.0	< 0.14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3. Summary of Groundwater VOC Analytical Results (2002 through 2011), 2011 Second Semiannual Groundwater Monitoring Report, Hercules Incorporated, Hattiesburg, Mississippi.

Location	Date	Concentrations in µg/L																																							
		Acetone	Benzene	Bromodichlorometh	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachlorid	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	cis-1,2-dichloroethe	1,2-Dichloroethane	1,2-Dichloropropan	1,1-Dichloroethene	Ethylbenzene	Methylene Chloride	Methyl Ethyl Ketone	Methyl Isobutyl Ket	Styrene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Total Xylenes	Bromobenzene	2-Chlorotoluene	4-Chlorotoluene	1,2-Dichlorobenzen	1,3-Dichlorobenzen	1,4-Dichlorobenzen	Naphthalene	1,2,3-Trichlorobenz	1,2,4-Trichlorobenz	1,2,4-Trimethylbenz	1,3,5-Trimethylbenz	p-Isopropyltoluene	Dibromochlorometh	Isopropylbenzene
MDEQ	GW	608	5	0.168	8.48	8.52	1040	5	100	3.64	1.43	0.155	70	5	5	7	700	5	1910	139	100	5	100	5	2	10000	--	--	--	600	5.48	75	6.2	--	7	12.3	12.3	--	0.13	679
MW-06	Aug-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	< 25	**56**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**58**	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	**12**	< 1.0	< 1.0	**50**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	**490**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	< 1.0	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-07	Aug-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	< 25	**93**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**61**	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**110**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	< 1.0	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-08	Dec-02	ND	**6,900**	**6.84**	ND	**4.07**	- -	**16,000**	**290**	**66**	**39.2**	**1,800**	**19.0**	**20**	ND	**17.0**	**55.6**	**26.1**	NA	NA	ND	**8.51**	**28**	**5.80**	ND	ND	ND	ND	ND	**2.71**	**3.75**	**3.80**	**9.14**	ND	ND	ND	ND	**23.9**	**4.45**	**4.60**
	Feb-03	NA	< 500	**4.72**	< 10.0	< 10.0	- -	**12,000**	**230**	**85.5**	**3.34**	**1,300**	**17.5**	**79.8**	< 10.0	**1.85**	**67.5**	< 13	NA	NA	**1.25**	**48.9**	**35.4**	**3.2**	< 10.0	**62.4**	< 10.0	< 10.0	< 10.0	**2.22**	< 10.0	**3.14**	B **25**	B **25.3**	B **5.73**	**1.92**	**1.80**	**23.8**	< 10.0	**4.35**
	Aug-05	< 6,300	**18,000**	< 1.0	< 250	< 250	- -	**3,500**	< 250	< 250	< 250	**510**	NA	**500**	< 250	< 250	< 250	< 1,300	< 10.0	< 10.0	< 250	< 250	< 250	< 250	< 250	< 500.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 2,500	**17,000**	< 1.0	< 100	< 100	- -	**1,000**	**160**	< 100	< 100	**260**	NA	< 100	< 100	< 100	**260**	< 500	< 10.0	< 10.0	< 100	< 100	**270**	< 100	< 100	**410**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 2,500	**11,000**	< 1.0	< 100	< 100	- -	**480**	**160**	< 100	< 100	**130**	NA	< 100	< 100	< 100	**290**	< 500	< 10.0	< 10.0	< 100	< 100	**300**	< 100	< 100	**600**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 630	**11,000**	< 25	< 25	< 25	- -	**2,200**	**170**	< 25	< 25	**280**	**29.0**	< 25	< 25	< 25	**190**	**380**	< 10.0	< 10.0	< 25	< 25	**240**	< 25	< 25	**340**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	**750**	**15,000**	< 1.0	< 1.0	< 1.0	- -	**640**	**220**	**3.80**	< 1.0	**450**	**34.0**	< 1.0	< 1.0	**6.40**	**280**	**510**	< 10.0	< 10.0	< 1.0	**8.40**	**410**	**2.80**	**2.60**	**640**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	< 2,500	**13,000**	< 1.0	< 100	< 100	- -	**330**	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	**190**	< 500	< 1,000	< 1,000	< 100	< 100	**270**	< 100	< 100	**430**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	< 250	**990**	< 1.0	< 10.0	< 10.0	- -	**840**	**24**	< 10	< 10	**100**	< 10.0	< 10	< 10.0	< 10.0	**12**	< 50	< 100	< 100	< 10	< 10	**11**	< 10.0	< 10.0	**22**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 2,500	**9,600**	< 1.0	< 50	< 50	- -	**6,100**	**220**	< 50	< 50	**890**	< 50	< 50	< 50	< 50	**100**	< 250	< 500	< 500	< 50	< 50	**79**	< 50	< 50	**160**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 2,500	**14,000**	< 1.0	< 100	< 100	- -	**370**	< 100	< 100	< 100	< 100	NA	< 100	< 100	< 100	**110**	< 500	< 10.0	< 10.0	< 100	< 100	**110**	< 100	< 100	< 200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 2,500	**3,200**	< 1.0	< 100	< 100	- -	**15,000**	**350**	< 100	< 100	**2,200**	NA	< 100	< 100	< 100	**110**	< 500	< 10.0	< 10.0	< 100	< 100	< 100	< 100	< 100	< 200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 2,500	**3,400**	< 1.0	< 100	< 100	- -	**1,800**	**150**	< 100	< 100	**460**	NA	< 100	< 100	< 100	**33**	**170**	< 10.0	< 10.0	< 100	< 100	< 100	< 100	< 100	**60**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 620	**540**	< 25	< 25	< 25	- -	**2,300**	**110**	< 25	< 25	**1,300**	< 25	< 25	< 25	< 25	< 25	< 125	< 250	< 250	< 25	< 25	< 25	< 25	< 25	< 25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 620	< 1,000	< 25	< 25	< 25	< 50	**2,700**	**180**	< 25	< 25	**610**	< 25	< 25	< 25	< 25	**68**	**380**	< 250	< 250	< 25	< 25	**43.0**	< 25	< 25	**95**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 250	**2,900**	< 10.0	< 10.0	< 10.0	< 20	**8,000**	**180**	< 10.0	< 10.0	**1,400**	< 10.0	**63**	< 10.0	< 10.0	**22**	**230**	< 100	< 100	< 10.0	< 10	**10.0**	< 10	< 10	< 20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 1,200	**6,000**	< 50	< 50	< 50	< 100	**1,000**	**150**	< 50	< 50	**300**	< 25	< 50	< 50	< 50	**74**	**560**	< 500	< 500	< 50	< 50	< 50	< 50	< 50	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 1,300	**4,600**	< 50	< 50	< 50	< 100	**2,600**	**220**	< 50	< 50	**640**	< 50	< 50	< 50	< 50	**55**	**340**	< 500	< 500	< 50	< 50	< 50	< 50	< 50	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 1,300	**5,000**	< 13	< 50	< 50	< 100	**1,100**	**160**	< 50	< 50	**140**	< 50	< 50	< 50	< 50	**63**	J **170**	< 500	< 500	< 50	< 50	J **28**	< 50	< 50	J **73**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-09	Dec-02	ND	**9.15**	ND	ND	ND	- -	ND	ND	ND	ND	ND	ND	ND	ND	**5.92**	ND	**2.48**	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Feb-03	NA	**64**	< 10.0	< 10.0	< 10.0	- -	**20.7**	J **5.85**	**19.7**	< 10.0	J **9.83**	< 10.0	J **1.43**	< 10.0	< 10.0	J **1.53**	< 13.0	NA	NA	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 15.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	B **31.7**	B **36.8**	B **4.98**	< 10.0	< 10.0	J **1.80**	< 10.0	J **1.92**
	Aug-05	< 25	**12**	< 1.0	< 1.0	< 1.0	- -	< 1.0	**1.00**	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	**3.2**	**1.40**	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	**16**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	**3.4**	**3.0**	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	**18**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	**4.1**	**3.8**	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	**8.10**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.2**	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	**1.1**	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	**10**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**6.0**	1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	**34**	**18**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**6.5**	**3.8**	**6.8**	< 10.0	**48**	< 1.0	< 1.0	**4.2**	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	< 25	**7.60**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**4.6**	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	**8.40**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.6**	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	**1.6**	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	**9.10**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.7**	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	**1.5**	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	**3.50**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.2**	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	**46**	**1.90**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 25	**1.10**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	**210**	**1.60**	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 25	**3.00**	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.3**	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	J **0.89**	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	J **0.58**	< 1.0	< 1.0	< 0.14	< 1.0	< 1.0	< 1.0	J **0.77**	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3. Summary of Groundwater VOC Analytical Results (2002 through 2011), 2011 Second Semiannual Groundwater Monitoring Report, Hercules Incorporated, Hattiesburg, Mississippi.

Location	Date	Concentrations in µg/L																																						
		Acetone	Benzene	Bromodichlorometh	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachlorid	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	cis-1,2-dichloroethe	1,2-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Ethylbenzene	Methylene Chloride	Methyl Ethyl Ketone	Methyl Isobutyl Keto	Styrene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Total Xylenes	Bromobenzene	2-Chlorotoluene	4-Chlorotoluene	1,2-Dichlorobenzen	1,3-Dichlorobenzen	1,4-Dichlorobenzen	Naphthalene	1,2,3-Trichlorobenze	1,2,4-Trichlorobenze	1,2,4-Trimethylbenz	1,3,5-Trimethylbenz	p-Isopropyltoluene	Dibromochlorometh	Isopropylbenzene
MDEQ	GW	608	5	0.168	8.48	8.52	1040	5	100	3.64	1.43	0.155	70	5	5	7	700	5	1910	139	100	5	100	5	2	10000	--	--	--	600	5.48	75	6.2	--	7	12.3	12.3	--	0.13	679
MW-10	Aug-03	NA	< 1.0	< 1.0	1.6	< 5.0	- -	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Aug-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	< 1.0	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-11	Dec-02	ND	**114**	ND	ND	ND	- -	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Feb-03	NA	J **6.39**	< 10.0	< 10.0	< 10.0	- -	< 10.0	< 10.0	< 12.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 13.0	NA	NA	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 15.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	B **42.6**	B **53.40**	B **13.55**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	Aug-03	NA	< 1.0	< 1.0	< 1.0	< 5.0	- -	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 5.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Aug-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	` 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	**42**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	< 1.0	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	Aug-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	**91**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	**32**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	**28**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	< 1.0	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	Aug-05	< 25	**120**	< 1.0	< 1.0	< 1.0	- -	**260**	**10**	< 1.0	< 1.0	**96**	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.10**	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	**29**	**78**	< 1.0	< 1.0	< 1.0	- -	**53**	**9**	< 1.0	< 1.0	**56**	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.70**	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	**110**	< 1.0	< 1.0	**1.6**	- -	**77**	**22**	< 1.0	< 1.0	**63**	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.40**	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	**48**	< 1.0	< 1.0	< 1.0	- -	**110**	**5**	< 1.0	< 1.0	**33**	**1.00**	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	**72**	< 1.0	< 1.0	< 1.0	- -	**45**	**17**	< 1.0	< 1.0	**35**	**3.10**	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.10**	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	< 25	**94**	< 1.0	< 1.0	< 1.0	- -	**27**	**19**	< 1.0	< 1.0	**30**	**4.00**	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.50**	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	< 25	**160**	< 1.0	< 1.0	< 1.0	- -	**680**	**14**	< 1.0	< 1.0	**120**	**2.50**	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.60**	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	**320**	< 1.0	< 1.0	< 1.0	- -	**1,400**	**13**	< 1.0	< 1.0	**130**	**1.30**	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	**180**	< 1.0	< 1.0	< 1.0	- -	**560**	**9**	< 1.0	< 1.0	**140**	**1.20**	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 250	**780**	< 1.0	< 20	< 20	- -	**3,200**	**23**	< 20	< 20	**260**	< 20	< 20	< 20	< 20	< 20	< 100	< 200	< 200	< 20	< 20	< 20	< 20	< 20	< 20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 250	**250**	**5.60**	< 20	< 20	- -	**880**	**14**	< 20	< 20	**180**	**1.80**	**6.10**	< 20	< 20	< 20	< 100	< 200	< 200	< 20	< 20	< 20	< 20	< 20	< 20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 620	**1,200**	< 25	< 25	< 25	- -	**3,500**	< 25	< 25	< 25	**340**	< 25	< 25	< 25	< 25	< 25	< 125	< 250	< 250	< 25	< 25	< 25	< 25	< 25	< 25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 620	**790**	< 25	< 25	< 25	< 50	**2,000**	**29**	< 25	< 25	**310**	< 25	< 25	< 25	< 25	< 25	< 120	< 250	< 250	< 25	< 25	< 25	< 25	< 25	< 50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 500	**2,600**	< 20	< 20	< 20	< 40	**4,000**	**110**	< 20	< 20	**1,900**	< 20	< 20	< 20	< 20	< 20	< 100	< 200	< 200	< 20.0	< 20	< 20*	< 20	< 20	< 40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 250	**530**	< 10.0	< 10.0	< 10.0	< 20	**970**	**25**	< 10.0	< 10.0	**230**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50	< 100	< 100	< 200	< 10.0	< 10.0	< 10.0	< 10.0	< 20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 250	**390**	< 10.0	< 10.0	< 10.0	< 20	**620**	**24**	< 10.0	< 10.0	**210**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50	< 100	< 100	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	J **5.3**	**77**	< 0.25	< 1.0	< 1.0	< 2.0	**120**	B **5.5**	< 1.0	< 1.0	**36**	J **0.65**	< 1.0	< 1.0	J **0.27**	J **0.16**	< 5.0	< 10.0	< 10.0	< 1.0	J **0.17**	< 1.0	< 1.0	< 1.0	J **0.30**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3. Summary of Groundwater VOC Analytical Results (2002 through 2011), 2011 Second Semiannual Groundwater Monitoring Report, Hercules Incorporated, Hattiesburg, Mississippi.

Location	Date	Concentrations in µg/L																																							
		Acetone	Benzene	Bromodichlorometh	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachlorid	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	cis-1,2-dichloroethe	1,2-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Ethylbenzene	Methylene Chloride	Methyl Ethyl Ketone	Methyl Isobutyl Ket	Styrene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Total Xylenes	Bromobenzene	2-Chlorotoluene	4-Chlorotoluene	1,2-Dichlorobenzen	1,3-Dichlorobenzen	1,4-Dichlorobenzen	Naphthalene	1,2,3-Trichlorobenz	1,2,4-Trichlorobenz	1,2,4-Trimethylbenz	1,3,5-Trimethylbenz	p-Isopropyltoluene	Dibromochlorometh	Isopropylbenzene
MDEQ	GW	608	5	0.168	8.48	8.52	1040	5	100	3.64	1.43	0.155	70	5	5	7	700	5	1910	139	100	5	100	5	2	10000	--	--	--	600	5.48	75	6.2	--	7	12.3	12.3	--	0.13	679
MW-14	Aug-05	**34**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	**35**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	**180**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	**440**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	**72**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	**650**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	**590**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	**260**	< 2.0	< 2.0	< 2.0	< 2.0	- -	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 20.0	< 20.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	J **13**	< 1.0	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-15	Aug-05	**84**	**1.7**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	**50**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	**1,500**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	**350**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	**62**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	**2,300**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	**1,300**	< 5.0	< 5.0	< 5.0	< 5.0	- -	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25.0	< 50.0	< 50.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	**32**	< 1.0	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-16	Aug-05	< 25	**2.3**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	**5.2**	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	**1.2**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	**2.1**	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	**1.1**	< 1.0	< 1.0	< 1.0	**2.4**	< 1.0	< 1.0	< 1.0	< 1.0	**1.3**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	**3.5**	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	J **8.2**	< 1.0	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-17	Aug-05	< 6,300	**6,200**	< 1.0	< 250	< 250	- -	**1,500**	**340**	< 250	< 250	**1,200**	NA	< 250	< 250	< 250	< 250	< 1,300	NA	NA	< 250	< 250	**920**	< 250	< 250	**680**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 13,000	**1,500**	< 1.0	< 500	< 500	- -	**17,000**	< 500	< 500	< 500	**1,600**	NA	< 500	< 500	< 500	< 500	< 2,500	NA	NA	< 500	< 500	< 500	< 500	< 500	< 1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 13,000	**1,300**	< 1.0	< 500	< 500	- -	**37,000**	**600**	< 500	< 500	**2,600**	NA	< 500	< 500	< 500	< 500	< 2,500	NA	NA	< 500	< 500	< 500	< 500	< 500	< 1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 6,300	**4,200**	< 250	< 250	< 250	- -	**30,000**	**530**	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 1,300	NA	NA	< 250	< 250	**720**	< 250	< 250	**540**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	**570**	**1,000**	< 1.0	< 1.0	< 1.0	- -	**33,000**	**610**	**3**	< 1	**3,000**	**26**	< 1.0	< 1.0	**6.0**	**36**	**10.0**	< 10.0	< 10.0	< 1.0	**8.00**	**69**	< 1.0	< 1.0	**93**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	< 5,000	**2,100**	< 1.0	< 200	< 200	- -	**26,000**	**470**	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 1,000	< 2,000	< 2,000	< 200	< 200	< 200	< 200	< 200	< 400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	< 5,000	**3,300**	< 1.0	< 200	< 200	- -	**48,000**	**810**	< 200	< 200	**3,400**	< 200	< 200	< 200	< 200	< 200	< 1,000	< 2,000	< 2,000	< 200	< 200	**270**	< 200	< 200	**420**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	**740**	**5,300**	< 1.0	< 20	< 20	- -	**32,000**	**770**	< 20	< 20	**2,800**	< 20	< 20	< 20	< 20	< 20	< 100	< 200	**570**	< 20	**22**	**450**	< 20	< 20	**810**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 5,000	**3,000**	< 1.0	< 200	< 200	- -	**45,000**	**890**	< 200	< 200	**4,600**	< 200	< 200	< 200	< 200	< 200	< 1,000	< 2,000	< 2,000	< 200	< 200	**210**	< 200	< 200	< 400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 5,000	**4,800**	< 1.0	< 200	< 200	- -	**47,000**	**930**	< 200	< 200	**3,600**	< 200	< 200	< 200	< 200	< 200	< 1,000	< 2,000	< 2,000	< 200	< 200	**450**	< 200	< 200	**670**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 5,000	**1,800**	< 1.0	< 200	< 200	- -	**34,000**	**720**	< 200	< 200	**3,500**	< 200	< 200	< 200	< 200	< 200	< 1,000	< 2,000	< 2,000	< 200	< 200	< 200	< 200	< 200	< 400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 5,000	**8,100**	< 1.0	< 200	< 200	- -	**39,000**	**640**	< 200	< 200	**2,900**	< 200	< 200	< 200	< 200	< 200	< 1,000	< 2,000	< 2,000	< 200	< 200	< 200	< 200	< 200	< 400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 12,000	**4,500**	< 500	< 500	< 500	< 1000	**54,000**	**1,200**	< 500	< 500	**7,100**	< 500	< 500	< 500	< 500	< 500	< 2,500	< 5,000	< 5,000	< 10,000	< 500	< 500	< 500	< 500	< 1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 2,500	**7,500**	< 100	< 100	< 100	< 200	**40,000**	**740**	< 100	< 100	**8,400**	< 100	< 100	< 100	< 100	**230**	**660**	< 1,000	< 1,000	< 100	< 100	**520**	< 100	< 100	**830**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 12,000	< 500	< 500	< 500	< 500	< 1000	**32,000**	**760**	< 500	< 500	**5,900**	< 500	< 500	< 500	< 500	< 500	< 2,500	< 5,000	< 5,000	< 500	< 500	< 500	< 500	< 500	< 1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 5,000	**3,600**	< 200	< 200	< 200	< 400	**25,000**	**770**	< 200	< 200	**3,000**	< 400	< 200	< 200	< 200	< 200	< 200	< 2,000	< 2,000	< 200	< 200	< 200	< 200	< 200	< 200	< 400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 5,000	**3,200**	< 50	< 200	< 200	< 400	D **36,000**	**710**	< 200	< 200	**3,500**	J **34**	< 200	< 200	< 200	J **150**	< 1,000	< 2,000	< 2,000	< 200	< 200	J **140**	< 200	< 200	J **320**	< 400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 3. Summary of Groundwater VOC Analytical Results (2002 through 2011), 2011 Second Semiannual Groundwater Monitoring Report, Hercules Incorporated, Hattiesburg, Mississippi.

Location	Date	Concentrations in µg/L																																							
		Acetone	Benzene	Bromodichlorometh	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachlorid	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	cis-1,2-dichloroethe	1,2-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Ethylbenzene	Methylene Chloride	Methyl Ethyl Ketone	Methyl Isobutyl Ket	Styrene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Total Xylenes	Bromobenzene	2-Chlorotoluene	4-Chlorotoluene	1,2-Dichlorobenzen	1,3-Dichlorobenzen	1,4-Dichlorobenzen	Naphthalene	1,2,3-Trichlorobenz	1,2,4-Trichlorobenz	1,2,4-Trimethylbenz	1,3,5-Trimethylbenz	p-Isopropyltoluene	Dibromochlorometh	Isopropylbenzene
MDEQ	GW	608	5	0.168	8.48	8.52	1040	5	100	3.64	1.43	0.155	70	5	5	7	700	5	1910	139	100	5	100	5	2	10000	--	--	--	600	5.48	75	6.2	--	7	12.3	12.3	--	0.13	679
MW-18	Aug-05	< 25	**10.00**	< 1.0	< 1.0	<1.0	- -	<1.0	**45**	< 1.0	<1.0	<1.0	NA	< 1.0	**2.30**	**2.60**	**1.60**	<5.0	<10.0	<10.0	<1.0	**1.10**	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	**3.90**	< 1.0	< 1.0	<1.0	- -	<1.0	**26**	< 1.0	<1.0	<1.0	NA	< 1.0	< 1.0	**1.60**	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	**4.20**	< 1.0	< 1.0	<1.0	- -	<1.0	**31**	< 1.0	<1.0	<1.0	NA	< 1.0	< 1.0	**1.50**	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	**6.50**	< 1.0	< 1.0	<1.0	- -	<1.0	**35**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	**2.30**	**1.10**	<5.0	<10.0	<10.0	<1.0	**1.00**	**1.20**	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	**4.80**	< 1.0	< 1.0	<1.0	- -	<1.0	**34**	< 1.0	<1.0	<1.0	<1.0	< 1.0	**20**	**3.10**	**1.20**	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	**61**	**2.90**	< 1.0	< 1.0	<1.0	- -	<1.0	**23**	< 1.0	<1.0	<1.0	<1.0	< 1.0	**1.10**	< 1.0	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	< 25	**4.10**	< 1.0	< 1.0	<1.0	- -	<1.0	**28**	< 1.0	<1.0	<1.0	<1.0	< 1.0	**1.40**	**1.70**	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	**4.00**	< 1.0	< 1.0	<1.0	- -	<1.0	**33**	< 1.0	<1.0	<1.0	<1.0	< 1.0	**1.30**	**1.60**	**1.00**	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	**1.20**	< 1.0	< 1.0	<1.0	- -	<1.0	**26**	< 1.0	<1.0	<1.0	<1.0	< 1.0	**1.20**	**1.40**	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	**1.70**	< 1.0	< 1.0	<1.0	- -	<1.0	**31**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	**2.00**	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 25	<1.0	< 1.0	< 1.0	<1.0	- -	<1.0	**23**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	**1.00**	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 25	<1.0	< 1.0	< 1.0	<1.0	- -	<1.0	**24**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	<1.0	< 1.0	< 1.0	<1.0	<2.0	<1.0	**21**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	**1.1**	< 1.0	< 1.0	<1.0	<2.0	<1.0	**20**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	**1.00**	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 25	<1.0	< 1.0	< 1.0	<1.0	<2.0	<1.0	**18**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	<1.0	< 1.0	< 1.0	<1.0	<2.0	<1.0	**21**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	J **0.42**	< 0.25	< 1.0	<1.0	<2.0	<1.0	**17**	< 1.0	<1.0	<0.14	<1.0	< 1.0	J **0.40**	J **0.48**	J **0.26**	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	J **0.39**	< 1.0	J **0.25**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-19	Aug-05	< 25	**20**	< 1.0	< 1.0	<1.0	- -	<1.0	**7.50**	< 1.0	<1.0	<1.0	NA	< 1.0	< 1.0	< 1.0	**1.90**	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	**19**	< 1.0	< 1.0	<1.0	- -	<1.0	**6.40**	< 1.0	<1.0	<1.0	NA	< 1.0	< 1.0	< 1.0	**1.30**	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	**22**	< 1.0	< 1.0	<1.0	- -	<1.0	**9.80**	< 1.0	<1.0	<1.0	NA	< 1.0	< 1.0	< 1.0	**2.10**	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	**28**	**21**	< 1.0	< 1.0	<1.0	- -	<1.0	**7.20**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	**1.70**	<5.0	<10.0	<10.0	<1.0	< 1.0	**1.00**	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	**18**	< 1.0	< 1.0	<1.0	- -	<1.0	**6.30**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	**2.10**	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	< 25	**20**	< 1.0	< 1.0	<1.0	- -	<1.0	**6.20**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	**2.00**	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	< 25	**32**	< 1.0	< 1.0	<1.0	- -	<1.0	**8.50**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	**2.40**	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	**36**	< 1.0	< 1.0	<1.0	- -	<1.0	**9.50**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	**2.50**	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.00	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	**44**	< 1.0	< 1.0	<1.0	- -	<1.0	**10**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	**1.10**	**2.60**	<5.0	<10.0	<10.0	<1.0	< 1.0	**1.40**	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	**66**	< 1.0	< 1.0	<1.0	- -	**6.70**	**13**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	**1.50**	**2.30**	<5.0	<10.0	<10.0	<1.0	< 1.0	**2.70**	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 25	**58**	< 1.0	< 1.0	<1.0	- -	<1.0	**9.70**	< 1.0	<1.0	**1.10**	<1.0	< 1.0	< 1.0	< 1.0	**2.40**	<5.0	<10.0	<10.0	<1.0	< 1.0	**1.90**	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 25	**65**	< 1.0	< 1.0	<1.0	- -	**11.0**	**14**	< 1.0	<1.0	**4.70**	<1.0	< 1.0	< 1.0	**1.30**	**2.00**	<5.0	<10.0	<10.0	<1.0	< 1.0	**2.70**	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	**64**	< 1.0	< 1.0	<1.0	<2.0	**4.50**	**12**	< 1.0	<1.0	**2.90**	<1.0	< 1.0	< 1.0	< 1.0	**2.40**	<5.0	<10.0	<10.0	<1.0	< 1.0	**2.40**	< 1.0	< 1.0	**2.2**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	**52**	< 1.0	< 1.0	<1.0	<2.0	**3.20**	**10**	< 1.0	<1.0	**3.60**	<1.0	< 1.0	< 1.0	**1.40**	**1.90**	<5.0	<10.0	<10.0	<1.0	< 1.0	**3.00**	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 25	**61**	< 1.0	< 1.0	<1.0	<2.0	<1.0	**9.1**	< 1.0	<1.0	**2.70**	<1.0	< 1.0	< 1.0	< 1.0	**2.20**	<5.0	<10.0	<10.0	<1.0	< 1.0	**2.50**	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	**54**	< 1.0	< 1.0*	<1.0	<2.0	**3.5**	**9.9**	< 1.0	<1.0	**3.30**	<1.0	< 1.0	< 1.0	< 1.0	**1.30**	<5.0	<10.0	<10.0	<1.0	< 1.0	**2.40**	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	J **5.0**	**51**	< 0.25	< 1.0	<1.0	<2.0	J **0.66**	**10**	< 1.0	<1.0	**1.3**	<1.0	< 1.0	< 1.0	J **0.87**	**2.0**	<5.0	<10.0	<10.0	<1.0	J **0.47**	**1.6**	< 1.0	< 1.0	J **1.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-20	Sep-09	< 25	<1.0	< 1.0	< 1.0	<1.0	<2.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<5.0	<10.0	<10.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	<1.0	< 1.0	< 1.0	<1.0	<2.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<5.0	<10.0	<10.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 25	<1.0	< 1.0	< 1.0	<1.0	<2.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<5.0	<10.0	<10.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	<1.0	< 1.0	< 1.0	<1.0	<2.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<5.0	<10.0	<10.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	J **0.80**	< 0.25	< 1.0	<1.0	<2.0	<1.0	J **0.63**	< 1.0	<1.0	<0.14	<1.0	< 1.0	< 1.0	< 1.0	J **0.33**	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-21	Sep-09	< 1,200	**4,400**	< 50	< 50	<50	<100	<50	**170**	< 50	<50	**6,800**	<50	< 50	< 50	< 50	<50	<250	<500	**640**	<50	< 50	**4,800**	< 50	< 50	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 1,200	**3,500**	< 50	< 50	<50	**2,900**	**280**	**150**	< 50	<50	**7,800**	<50	< 50	< 50	< 50	<50	<250	<500	<500	<50	< 50	**4,500**	< 50	< 50	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 1,200	**4,400**	< 50	< 50	<50	<100	<50	**180**	< 50	<50	**7,300**	<50	**84**	< 50	< 50	<50	<250	<500	**510**	<50	< 50	**4,500**	< 50	< 50	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 1,300	**3,200**	< 50	< 50	<50	<100	<50	**150**	< 50	<50	**4,300**	<100	< 50	< 50	< 50	<50	<50	<500	<500	<50	< 50	**2,600**	< 50	< 50	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	J **340**	**5,200**	< 13	< 50	<50	<100	<50	**220**	< 50	<50	**5,100**	<50	< 50	< 50	J **16**	<50	J **100**	<500	**570**	<50	J **8.0**	**3,300**	< 50	< 50	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-22	Sep-09	**86**	**9.80**	< 1.0	< 1.0	<1.0	<2.0	<1.0	**7.70**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	**6.60**	< 1.0	< 1.0	<1.0	<2.0	<1.0	**4.90**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 25	**6.30**	< 1.0	< 1.0	<1.0	<2.0	<1.0	**2.30**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	**10.0**	< 1.0	< 1.0	<1.0	<2.0	<1.0	**8.70**	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<5.0	<10.0	**21**	<1.0	< 1.0	**1.1**	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	J **15**	**8.1**	< 0.25	< 1.0	<1.0	<2.0	<1.0	**12**	< 1.0	<1.0	**1.1**	<1.0	< 1.0	< 1.0	< 1.0	J **0.40**	<5.0	<10.0	**30**	J **0.19**	< 1.0	**1.0**	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-23	Sep-09	**1,600**	**9,200**	< 100	< 50	<100	<100	<50	**190**	< 100	<100	**1,400**	<100	< 50	< 50	< 50	<50	**290**	<500	**1,300**	<100	< 100	**3,300**	< 500	< 50	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 2,500	**10,000**	< 100	< 50	<100	<200	<100	**180**	< 100	<100	**2,000**	<100	< 100	< 100	< 100	<100	<500	<1,000	**1,000**	<100	< 100	**3,300**	< 100	< 100	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 2,500	**7,600**	< 100	< 50	<100	**360**	<100	< 100	< 100	<100	**2,900**	<100	< 100	< 100	< 100	<100	<500	<1,000	<1,000	<100	< 100	**1,400**	< 100	< 100	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 2,500	**8,800**	< 100	< 100	<100	**390**	<100	**140**	< 100	<100	**3,200**	<100	< 100	< 100	< 100	<100	<500	<1,000	<**1,100**	<100	< 100	**1,300**	< 100	< 100	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	J **1,300**	**5,000**	< 25	< 100	<100	**350**	<100	J **53**	< 100	<100	**1,800**	<100	< 100	< 100	< 100	<100	J **110**	J **210**	J **450**	<100	< 100	**740**	< 100	< 100	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-24	Sep-09	< 25	<1.0	< 1.0	< 1.0	<1.0	<2.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	<1.0	< 1.0	< 1.0	<1.0	<2.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-10	< 25	<1.0	< 1.0	< 1.0	<1.0	<2.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	<1.0	< 1.0	< 1.0	<1.0	<2.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	<1.0	< 0.25	< 1.0	<1.0	<2.0	<1.0	J **0.39**	< 1.0	<1.0	<0.14	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<5.0	<10.0	<10.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Boldface type Compound detected.
Shaded cells indicate that the reported result exceeds the MDEQ_GW.
B Compound detected in the associated method blank.
D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J Estimated value.
µg/L Micrograms per liter.
MDEQ Mississippi Department of Environmental Quality.
MDEQ_GW MDEQ Tier 1 Target Remediation Goal.
NA Not analyzed.
- - Standard not promulgated/Data not available.
< Less than.
Some Appendix IX parameters not shown due to no detections for that parameter.

ARCADIS

Table 4. Summary of Surface Water VOC Analytical Results (2002 through 2011), 2011 Second Semiannual Groundwater Monitoring Report, Hercules Incorporated, Hattiesburg, Mississippi.

Location	Date	Concentrations in µg/L																																					
		Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	cis-1,2-dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Ethylbenzene	Methylene Chloride	Methyl Ethyl Ketone	Methyl Isobutyl Ketone	Styrene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Total Xylenes	Bromobenzene	2-Chlorotoluene	4-Chlorotoluene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Naphthalene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	p-Isopropyltoluene	Dibromochloromethane	Isopropylbenzene
MDEQ GW		608	5	0.168	8.48	8.52	1040	5	100	3.64	1.43	0.155	70	5	5	7	700	5	1910	139	100	5	100	5	2	10000	--	--	--	600	5.48	75	6.2	--	7	12.3	12.3	--	0.13	679
CM-00	Sep-03	NA	< 1.0	< 1.0	< 1.0	< 5.0	- -	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**5.0**	**4.1**	< 5.0	NA	NA	**3.16**	< 1.0	< 1.0	< 1.0	< 1.0	**8.31**	**4.18**	**3.40**	**4.61**	**3.44**	**3.66**	**7.54**	< 5.0	< 5.0	< 5.0	< 1.0	**1.04**	< 1.0	< 1.0	< 1.0
	Aug-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	**42**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.10**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	< 1.0	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	J **0.76**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CM-01	Feb-03	NA	**2.82**	< 10.0	< 10.0	< 10.0	- -	**3.03**	< 10.0	**20.5**	< 10.0	**2.34**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.00	< 13.0	NA	NA	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 15.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	**25.7**	**32.2**	**3.36**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	Sep-03	NA	< 1.0	< 1.0	< 1.0	< 5.0	- -	< 1.0	**6.58**	< 5.0	< 1.0	< 1.0	< 1.0	**1.71**	< 1.0	< 5.0	**1.55**	< 5.0	NA	NA	**2.36**	< 1.00	**4.66**	< 1.00	< 1.00	**7.41**	**13**	**2.53**	**4.17**	**3.76**	**3.42**	**6.35**	**14.7**	**6.64**	**1.8**	**1.3**	**1.57**	< 1.0	< 1.0	< 1.0
	Aug-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	**62**	**8.40**	< 1.0	< 1.0	< 1.0	- -	< 1.0	**24**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**57**	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	**2.70**	< 1.0	< 1.0	**86**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	**49**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	< 1.0	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	J **0.27**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CM-02	Feb-03	NA	**1.17**	< 10.0	< 10.0	< 10.0	- -	**1.48**	< 10.0	**15.6**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 13.0	NA	NA	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 15.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	**20.3**	**24.8**	**2.37**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	Aug-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	**21**	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	**92**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	**34**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	< 1.0	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	J **0.20**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4. Summary of Surface Water VOC Analytical Results (2002 through 2011), 2011 Second Semiannual Groundwater Monitoring Report, Hercules Incorporated, Hattiesburg, Mississippi.

Location	Date	Concentrations in µg/L																																					
		Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	cis-1,2-dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,1-Dichloroethene	Ethylbenzene	Methylene Chloride	Methyl Ethyl Ketone	Methyl Isobutyl Ketone	Styrene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Total Xylenes	Bromobenzene	2-Chlorotoluene	4-Chlorotoluene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Naphthalene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	p-Isopropyltoluene	Dibromochloromethane	Isopropylbenzene
MDEQ GW		608	5	0.168	8.48	8.52	1040	5	100	3.64	1.43	0.155	70	5	5	7	700	5	1910	139	100	5	100	5	2	10000	--	--	--	600	5.48	75	6.2	--	7	12.3	12.3	--	0.13	679
CM-03	Feb-03	NA	**3.66**	< 10.0	< 10.0	< 10.0	- -	< 10.0	< 10.0	**8.42**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 13.0	NA	NA	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 15.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	**20.1**	**23**	**2.13**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	Aug-05	< 25	**1.10**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	**1.40**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	**1.10**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	**1.60**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	**63**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	**4.80**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	**1.90**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	J **0.30**	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CM-04	Feb-03	NA	**2.25**	< 10.0	< 10.0	< 10.0	- -	< 10.0	< 10.0	**3.43**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 13.0	NA	NA	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 15.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	**13**	**12.2**	**1.26**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	Aug-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	**31**	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	**1.40**	**17**	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	**160**	< 10.0	< 1.0	**90**	< 1.0	**26**	**2.6**	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	**160**	**1.30**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 25	**4.10**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**7.60**	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	< 1.0	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CM-05	Feb-03	NA	**4.04**	< 10.0	< 10.0	< 10.0	- -	< 10.0	< 10.0	< 12.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 13.0	NA	NA	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 15.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	**7.51**	**5.54**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	Aug-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-05	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aug-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-06	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Feb-07	< 25	**2.00**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-07	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-08	< 25	< 1.0	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-09	< 25	**4.00**	< 1.0	< 1.0	< 1.0	- -	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-09	**47**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	May-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nov-10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jul-11	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dec-11	< 25	< 1.0	< 0.25	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Boldface type Compound detected.
Shaded cells indicate that the reported result exceeds the MDEQ_GW.
B Compound detected in the associated method blank.
D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J Estimated value.
µg/L Micrograms per liter.
MDEQ Mississippi Department of Environmental Quality.
MDEQ_GW MDEQ Tier 1 Target Remediation Goal.
NA Not analyzed.
- - Standard not promulgated/Data not available.
< Less than.
Some Appendix IX parameters not shown due to no detections for that parameter.

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Table 5. QA/QC Sample Analytical Results, 2011 Second Semiannual Groundwater Monitoring Report, Hercules Incorporated, Hattiesburg, Mississippi.

Location/ Sample ID	Sample Date	Benzene µg/L	Carbon Tetrachloride µg/L	Chlorobenzene µg/L	Chloroform µg/L	Ethylbenzene µg/L	Methylene Chloride µg/L	Acetone µg/L	1,1-Dichloroethene µg/L	Tetrachloroethene µg/L	Toluene µg/L	Total Xylenes µg/L
MW-8	12/7/2011	**5,000**	**1,100**	**160**	**140**	**63**	J **170**	< 1300	< 50	< 50	J **28**	J **73**
DUP A-120711	12/7/2011	**4,900**	**1,100**	**160**	**140**	**58**	J **160**	< 1300	< 50	< 50	J **26**	J **73**
Relative % Difference	--	2%	0%	0%	0%	8%	6%	0%	0%	0%	7%	0%
MW-19	12/8/2011	**51**	J **0.66**	**10**	**1.3**	**2.0**	< 5.0	J **5.0**	J **0.87**	J **0.47**	**1.6**	J **1.6**
DUP B-120811	12/8/2011	**49**	J **0.70**	B **10**	**1.4**	**1.9**	< 5.0	J **5.1**	**1.0**	J **0.41**	**1.5**	J **1.6**
Relative % Difference	--	4%	6%	0%	7%	5%	0%	2%	14%	14%	6%	0%
EB1-120611	12/6/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 25	< 1.0	< 1.0	< 1.0	< 2.0
EB2-120711	12/7/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 25	< 1.0	< 1.0	< 1.0	< 2.0
EB3-120811	12/8/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 25	< 1.0	< 1.0	< 1.0	< 2.0
RS1-120611	12/6/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 25	< 1.0	< 1.0	< 1.0	< 2.0
RS2-120611	12/6/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 25	< 1.0	< 1.0	< 1.0	< 2.0
RS3-120711	12/7/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 25	< 1.0	< 1.0	< 1.0	< 2.0
RS4-120811	12/8/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 25	< 1.0	< 1.0	< 1.0	< 2.0
RS5-120911	12/9/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 25	< 1.0	< 1.0	< 1.0	< 2.0
Trip Blank 110211	12/5/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 25	< 1.0	< 1.0	< 1.0	< 2.0
Trip Blank 032150	12/6/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 25	< 1.0	< 1.0	< 1.0	< 2.0
Trip Blank 110211	12/7/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 25	< 1.0	< 1.0	< 1.0	< 2.0
Trip Blank 112811	12/8/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 25	< 1.0	< 1.0	< 1.0	< 2.0
Trip Blank 112811	12/9/2011	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 25	< 1.0	< 1.0	< 1.0	< 2.0

"<" indicates that the concentration of the analyte is less than the concentrations shown.
J - Estimated value.
B - Compound detected in the associated method blank.
µg/L - Micrograms per liter.

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Table 6. 2012 Proposed Groundwater and Surface Water Monitoring Program, 2011 Second Semiannual Groundwater Monitoring Report, Hercules Incorporated, Hattiesburg, Mississippi.

Monitoring Location	Sample Classification	Proposed 2012 1st Semiannual Event	Proposed 2012 2nd Semiannual Event	
		MDEQ-Required Sampling	MDEQ-Required Sampling	
Sludge Pits Groundwater				
MW-2	Upgradient	VOCs	VOCs	--
MW-3	Upgradient	VOCs	VOCs	--
MW-4	**Downgradient**	VOCs	VOCs	Delnav
MW-10	**Downgradient**	VOCs	VOCs	--
MW-11	**Downgradient**	VOCs	VOCs	--
Landfill Groundwater				
MW-5	**Downgradient**	VOCs	VOCs	--
MW-6	Downgradient	VOCs	VOCs	--
MW-12	**Downgradient**	VOCs	VOCs	--
MW-13	Upgradient	VOCs	VOCs	Delnav
MW-14	**Downgradient**	VOCs	VOCs	Delnav
Groundwater				
MW-7	Upgradient	VOCs	VOCs	--
MW-8	Downgradient	VOCs	VOCs	Delnav
MW-9	Upgradient	VOCs	VOCs	--
MW-15	Downgradient	VOCs	VOCs	Delnav
MW-16	Downgradient	VOCs	VOCs	Delnav
MW-17	Upgradient	VOCs	VOCs	Delnav
MW-18	Point of Compliance	VOCs	VOCs	--
MW-19	Point of Compliance	VOCs	VOCs	--
IB Basin Groundwater				
MW-20	Upgradient	VOCs	VOCs	--
MW-21	Crossgradient	VOCs	VOCs	--
MW-22	Crossgradient	VOCs	VOCs	--
MW-23	Downgradient	VOCs	VOCs	--
MW-24	Downgradient	VOCs	VOCs	--
Greens Creek Surface Water				
CM-00	Upgradient SW	VOCs	VOCs	--
CM-01	Upgradient SW	VOCs	VOCs	--
CM-02	Upgradient SW	VOCs	VOCs	--
CM-03	**Downgradient SW**	VOCs	VOCs	--
CM-04	**Downgradient SW**	VOCs	VOCs	--
CM-05	**Downgradient SW**	VOCs	VOCs	--

Wells shown in **bold** font are documented as contingency/"trigger" wells in the 2005 Corrective Action Plan.
VOCs - Volatile Organic Compounds per 40 CFR 264 Appendix IX via Method SW846-8260.
Delnav - Dioxathion (cis- and trans-) and Dioxenethion via Method SW846-3510/8321, HPLC.

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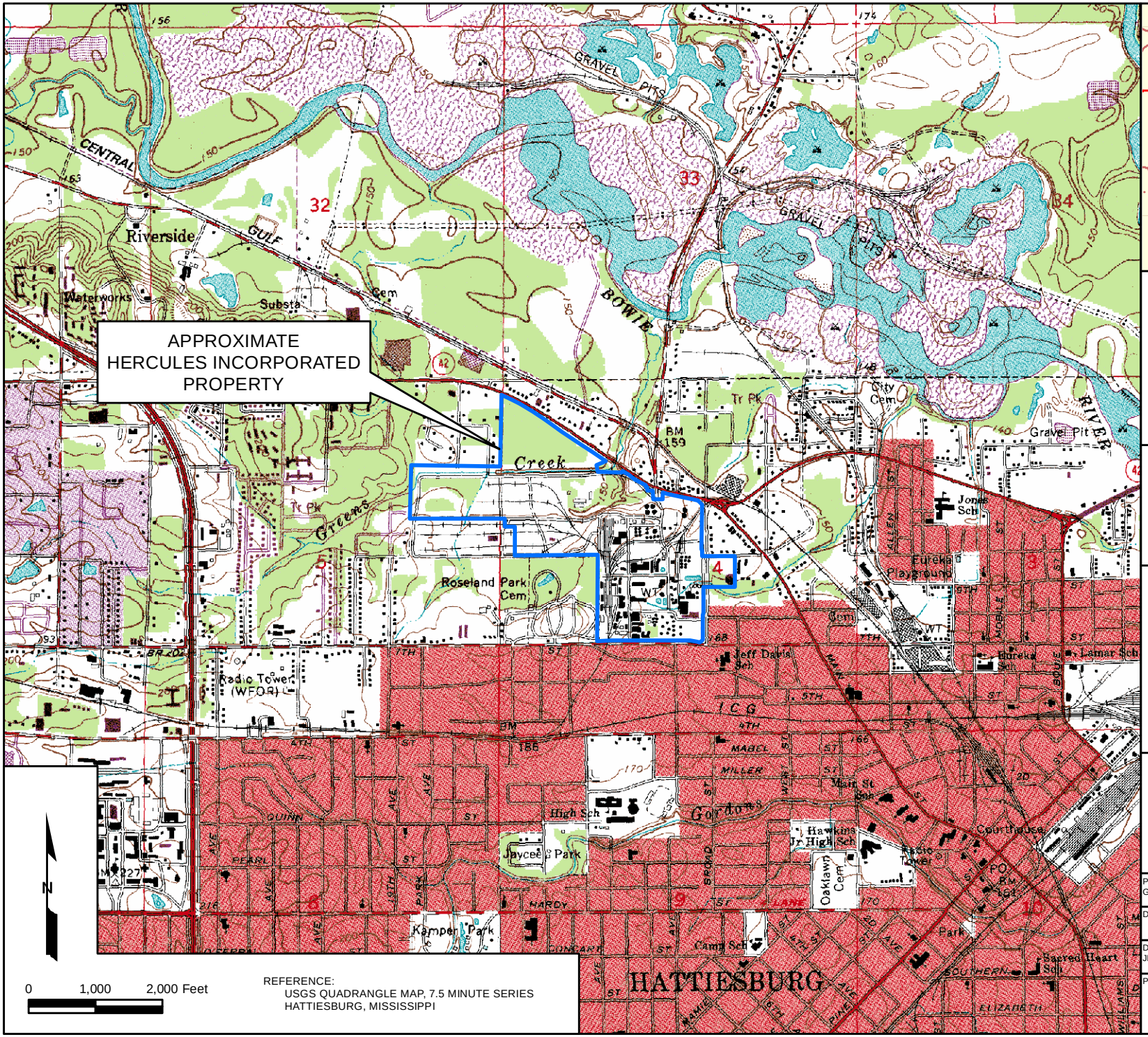
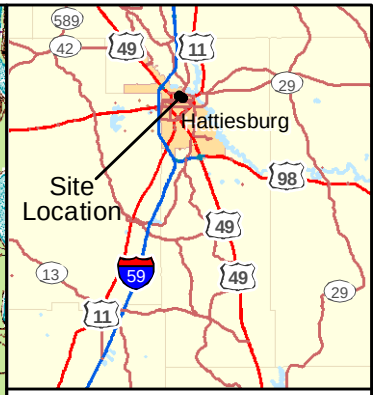
Figures



REFERENCE:
USGS QUADRANGLE MAP, 7.5 MINUTE SERIES
HATTIESBURG, MISSISSIPPI



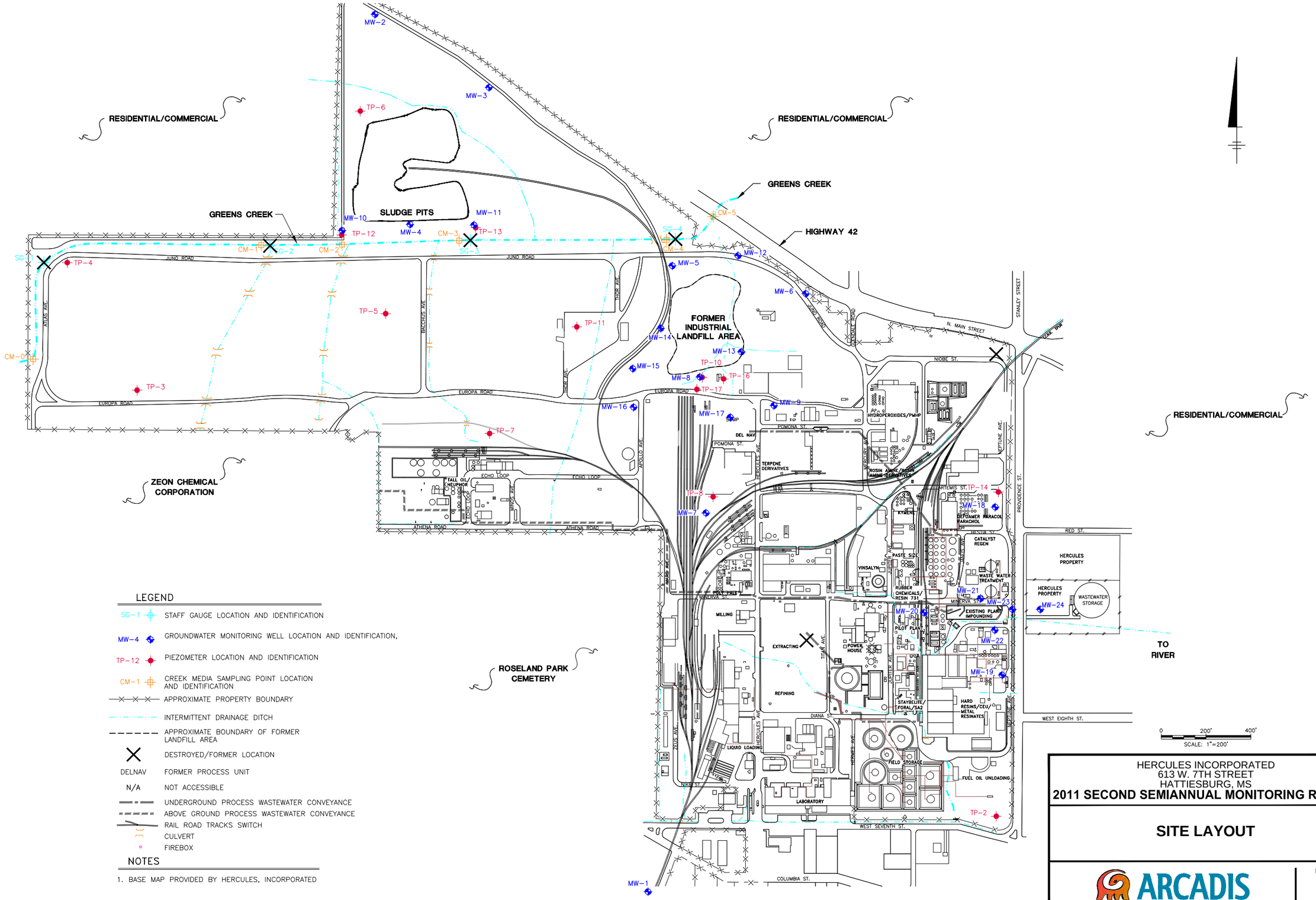
SITE LOCATION MAP

2011 SECOND SEMIANNUAL
MONITORING REPORT

HERCULES INCORPORATED
613 W. 7th Street
Hattiesburg, Mississippi

ARCADIS
10352 PLAZA AMERICANA DRIVE
BATON ROUGE, LA 70816
TEL: 225-292-1004
FAX: 225-218-9677
WWW.ARCADIS-US.COM

PROJECT MANAGER: GHC	CHECKED BY: CD
DRAWING FILE:	GIS FILE:
DRAWING BY: JEC	DATE: 01/03/2012
PROJECT NUMBER: LA002999.0006	FIGURE NUMBER: 1



LEGEND

SG-1	STAFF GAUGE LOCATION AND IDENTIFICATION
MW-4	GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION,
TP-12	PIEZOMETER LOCATION AND IDENTIFICATION
CM-1	CREEK MEDIA SAMPLING POINT LOCATION AND IDENTIFICATION
	APPROXIMATE PROPERTY BOUNDARY
	INTERMITTENT DRAINAGE DITCH
	APPROXIMATE BOUNDARY OF FORMER LANDFILL AREA
	DESTROYED/FORMER LOCATION
DELNAV	FORMER PROCESS UNIT
N/A	NOT ACCESSIBLE
	UNDERGROUND PROCESS WASTEWATER CONVEYANCE
	ABOVE GROUND PROCESS WASTEWATER CONVEYANCE
	RAIL ROAD TRACKS SWITCH
	CULVERT
	FIREBOX

NOTES

1. BASE MAP PROVIDED BY HERCULES, INCORPORATED

HERCULES INCORPORATED
613 W. 7TH STREET
HATTIESBURG, MS

2011 SECOND SEMIANNUAL MONITORING REPORT

SITE LAYOUT

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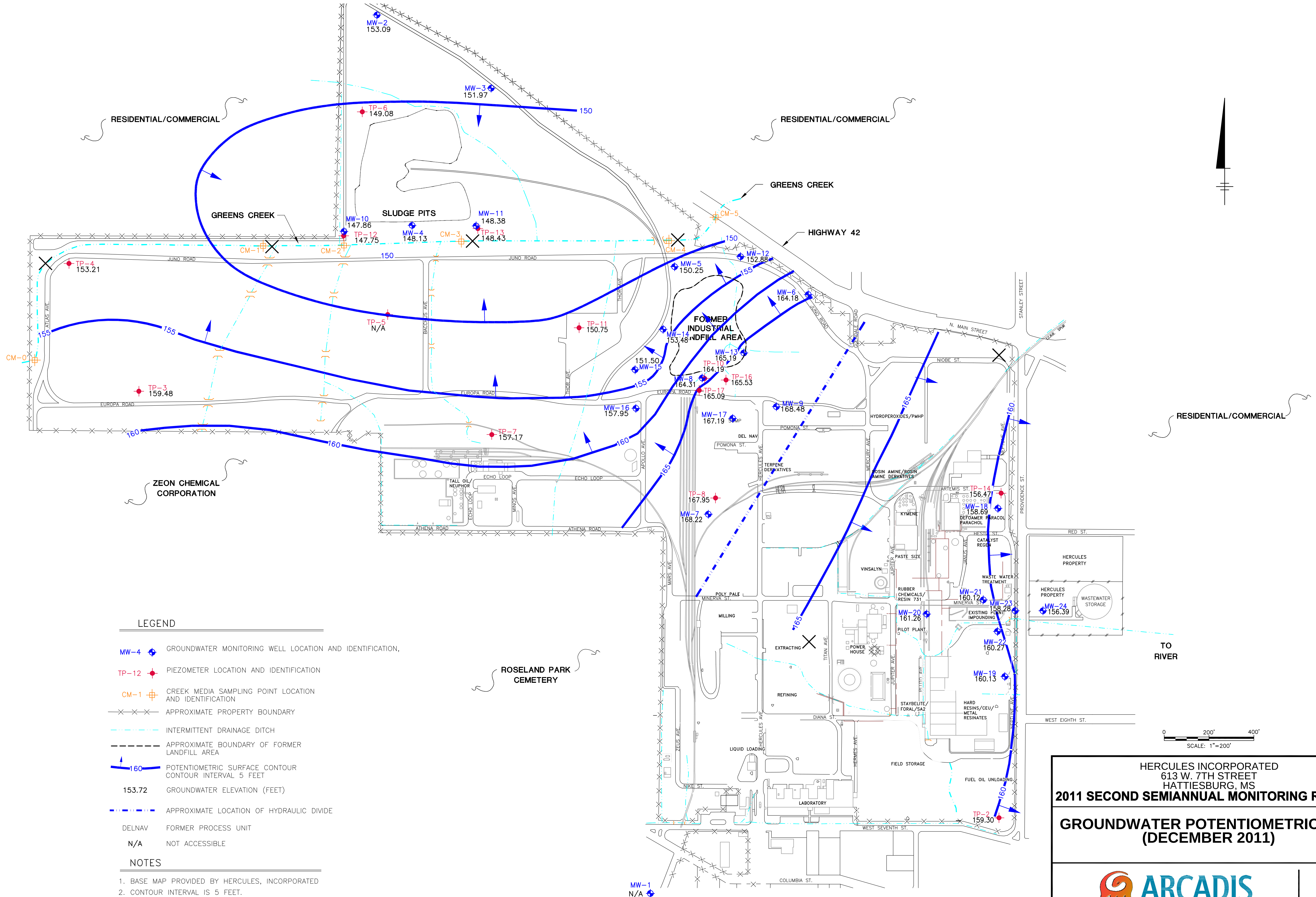
FIGURE
2

CITY: SYRACUSE, NY DV/GROUP: ENVCAD DB: R.PETRIE LD: S. MEN PIC: J. REID PM: J. ELLIS TM: H. ENGLISH LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTLA002999\0006\004400\DWG\02999G02.dwg LAYOUT: 2 SAVED: 12/30/2011 3:53 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULLCTB PLOTTED: 12/30/2011 3:53 PM BY: PETRIE, RICH
XREFS: 02999X02 02999X00 IMAGES: PROJECTNAME: ----



RESIDENTIAL/COMMERCIAL
RESIDENTIAL/COMMERCIAL
RESIDENTIAL/COMMERCIAL
GREENS CREEK
GREENS CREEK
HIGHWAY 42
SLUDGE PITS
FORMER INDUSTRIAL LANDFILL AREA
ZEON CHEMICAL CORPORATION
ROSELAND PARK CEMETERY
TO RIVER
JUNO ROAD
EUROPA ROAD
ECHO LOOP
ATHENA ROAD
N. MAIN STREET
NIOBE ST.
POMONA ST.
MINERVA ST.
DIANA ST.
NIKE ST.
WEST SEVENTH ST.
WEST EIGHTH ST.
COLUMBIA ST.
STANLEY STREET
PROVIDENCE ST.
RED ST.
MW-2 153.09
MW-3 151.97
TP-6 149.08
MW-10 147.86
TP-12 147.75
MW-4 148.13
MW-11 148.38
TP-13 148.43
TP-4 153.21
TP-5 N/A
TP-11 150.75
TP-3 159.48
TP-7 157.17
MW-5 150.25
MW-12 152.88
MW-6 164.18
MW-14 153.48
MW-13 165.19
151.50 MW-15
TP-10 164.19
MW-8 164.31
TP-16 165.53
TP-17 165.09
MW-16 157.95
MW-9 168.48
MW-17 167.19
TP-8 167.95
MW-7 168.22
TP-14 156.47
MW-18 158.69
MW-21 160.12
MW-23 158.28
MW-24 156.39
MW-20 161.26
MW-22 160.27
MW-19 160.13
TP-2 159.30
MW-1 N/A
CM-0
CM-1
CM-2
CM-3
CM-4
CM-5
150
155
160
165
HERCULES PROPERTY
WASTEWATER STORAGE
0 200' 400'
SCALE: 1"=200'

LEGEND

MW-4	GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION.
TP-12	PIEZOMETER LOCATION AND IDENTIFICATION
CM-1	CREEK MEDIA SAMPLING POINT LOCATION AND IDENTIFICATION
—X—X—	APPROXIMATE PROPERTY BOUNDARY
	INTERMITTENT DRAINAGE DITCH
	APPROXIMATE BOUNDARY OF FORMER LANDFILL AREA
160	POTENTIOMETRIC SURFACE CONTOUR CONTOUR INTERVAL 5 FEET
153.72	GROUNDWATER ELEVATION (FEET)
	APPROXIMATE LOCATION OF HYDRAULIC DIVIDE
DELNAV	FORMER PROCESS UNIT
N/A	NOT ACCESSIBLE

NOTES

1. BASE MAP PROVIDED BY HERCULES, INCORPORATED
2. CONTOUR INTERVAL IS 5 FEET.

HERCULES INCORPORATED
613 W. 7TH STREET
HATTIESBURG, MS

2011 SECOND SEMIANNUAL MONITORING REPORT

GROUNDWATER POTENTIOMETRIC MAP (DECEMBER 2011)

ARCADIS

FIGURE 3

RESIDENTIAL/COMMERCIAL

RESIDENTIAL/COMMERCIAL

RESIDENTIAL/COMMERCIAL

GREENS CREEK

GREENS CREEK

HIGHWAY 42

SLUDGE PITS

FORMER INDUSTRIAL LANDFILL AREA

ZEON CHEMICAL CORPORATION

ROSELAND PARK CEMETERY

TO RIVER

CM-2	
Chloroform	0.20 J

CM-1	
Chloroform	0.27 J

CM-0	
Chloroform	0.76 J

MW-8	
Benzene	5,000
Carbon Tetrachloride	1,100
Chlorobenzene	160
Chloroform	140
Methylene Chloride	170 J

MW-13	
Benzene	77
Carbon Tetrachloride	120
Chloroform	36

MW-17	
Benzene	3,200
Carbon Tetrachloride	36,000 D
Chlorobenzene	710
Chloroform	3,500
Toluene	140 J

MW-21	
Benzene	5,200
Chlorobenzene	220
Chloroform	5,100
1,1-Dichloroethene	16 J
Methylene Chloride	100 J
Methyl isobutyl ketone	570
Tetrachloroethene	8.0 J
Toluene	3,300

MW-23	
Acetone	1,300"J
Benzene	5,000
Chloroform	1,800
Methylene Chloride	110 J
Methyl isobutyl ketone	450 J
Toluene	740

MW-22	
Benzene	8.1
Chloroform	1.1

MW-19	
Benzene	51
Chloroform	1.3

LEGEND

- SG-1 — STAFF GAUGE LOCATION AND IDENTIFICATION
- MW-4 — GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION,
- TP-12 — PIEZOMETER LOCATION AND IDENTIFICATION
- CM-1 — CREEK MEDIA SAMPLING POINT LOCATION AND IDENTIFICATION
- APPROXIMATE PROPERTY BOUNDARY
- INTERMITTENT DRAINAGE DITCH
- APPROXIMATE BOUNDARY OF FORMER LANDFILL AREA
- DESTROYED/FORMER LOCATION
- DELNAV — FORMER PROCESS UNIT
- N/A — NOT ACCESSIBLE
- RAIL ROAD TRACKS SWITCH
- CULVERT
- FIREBOX

NOTES

1. BASE MAP PROVIDED BY HERCULES, INCORPORATED

DATA KEY

MW-17	
Benzene	3,200
Carbon Tetrachloride	36,000 D
Chlorobenzene	710
Chloroform	3,500
Toluene	140 J

SAMPLE LOCATION

RESULT (µg/L)

QUALIFIERS:
D = DILUTED SAMPLE
J = ESTIMATED VALUE

ANALYTE

DATA NOTES

1. RESULTS ARE FOR SAMPLES COLLECTED DECEMBER 2011.

0 200' 400'
SCALE: 1"=200'

HERCULES INCORPORATED
613 W. 7TH STREET
HATTIESBURG, MS

2011 SECOND SEMIANNUAL MONITORING REPORT

GROUNDWATER RESULTS EXCEEDING MDEQ TRGs

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FIGURE
4

Appendix A

Groundwater Sample Collection Logs

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Former Hercules Chemical)
Project Number: 11168
Boring ID: MW-02
Site Location: Hattiesburg, MS

Start Date: 12/6/2011 Finish Date: 12/6/2011
Sample Technician: Brent Eanes
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches): 2"
Total Depth of Well (ft) BTOC: 20.50
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 13.48
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 2.20

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	13:38	8.06
12/6/2011	10:20	7.02
12/6/2011	10:35	7.85
12/6/2011	10:40	7.96
12/6/2011	10:49	7.99

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/5/2011 10:35	0.25	6.33	0.090	18.95	38.0	4.96	NA	
10:39	1.25	5.78	0.098	19.15	26.2	2.82	167.5	
10:44	2.25	5.62	0.100	19.16	23.1	1.53	135.1	
10:46	2.75	5.62	0.100	19.19	21.0	1.19	130.7	
10:49	3.25	5.60	0.100	19.16	15.0	1.10	127.3	
10:52	3.75	5.60	0.100	19.24	14.0	0.99	123.1	
10:54	4.25	5.61	0.100	19.24	13.4	0.96	121.5	

Sample Identification: ASH-MW02-120611

Weather Conditions During Sampling: Cloudy, Windy, 49° F

Comments:

Signature: Date: 12/6/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/6/2011	10:57	3-40 mL VOA	Unpreserved

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Hercules)
Project Number: 11168
Boring ID: MW-03
Site Location: Hattiesburg, MS

Start Date: 12/6/2011 Finish Date: 12/6/2011
Sample Technician: Andrew Paradis
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches) 2"
Total Depth of Well (ft) BTOC: 18.00
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 9.87
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 1.61

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	13:31	8.06
12/6/2011	10:30	8.13
12/6/2011	10:57	8.39
12/6/2011	11:11	8.43
12/6/2011	11:25	8.44
12/6/2011	11:32	8.45
12/6/2011	11:39	8.45

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/6/2011 10:57	1.00	4.21	0.031	18.80	37.30	2.49	63.5	
12/6/2011 11:11	2.00	4.04	0.030	18.79	22.70	1.48	56.4	
12/6/2011 11:25	3.00	4.05	0.035	18.83	14.40	0.96	13.7	
12/6/2011 11:32	3.50	4.29	0.041	18.79	10.10	0.70	6.2	
12/6/2011 11:39	4.00	4.28	0.041	18.85	10.30	0.61	27.8	
12/6/2011 11:46	4.50	4.22	0.040	18.88	7.96	0.51	-57.3	
12/6/2011 11:53	5.00	4.21	0.040	18.80	9.28	0.44	-22.7	

Sample Identification: ASH-MW3-12062011

Weather Conditions During Sampling: ~ 9° C, Cloudy

Comments: Very turbid sample due to disturbance from bailer.

Signature: Date: 12/6/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/6/2011	11:55	3-40 mL VOA;	Unpreserved

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Former Hercules Chemical)
Project Number: 11168
Boring ID: MW-04
Site Location: Hattiesburg, MS

Start Date: 12/7/2011 Finish Date: 12/7/2011
Sample Technician: Brent Eanes
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches) 2"
Total Depth of Well (ft) BTOC: 18.74
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 11.12
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 1.81

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	13:59	7.62
12/7/2011	9:38	11.61
12/7/2011	9:57	11.67
12/7/2011	10:00	11.67
12/7/2011	10:06	11.67
12/7/2011	10:09	11.67

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/7/2011 9:56	0.25	6.10	0.350	19.73	95.0	0.47	-49.0	
9:58	0.50	6.04	0.355	20.65	39.0	0.93	-39.8	
10:00	0.75	6.03	0.323	20.95	22.0	0.52	-38.3	
10:02	1.00	6.03	0.323	21.08	16.0	0.38	-38.1	
10:04	1.25	6.03	0.323	21.06	13.0	0.37	-38.8	
10:06	1.50	6.03	0.323	21.19	13.0	0.34	-38.6	
10:08	1.75	6.03	0.323	21.31	10.0	0.31	-38.4	

Sample Identification: ASH-MW04-120711

Weather Conditions During Sampling Clear, 40° F

Comments:

Signature: Date: 12/7/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/7/2011	10:12	3-40 mL VOA	Unpreserved

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Former Hercules Chemical)
Project Number: 11168
Boring ID: MW-05
Site Location: Hattiesburg, MS

Start Date: 12/6/2011 Finish Date: 12/6/2011
Sample Technician: Brent Eanes
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches): 2"
Total Depth of Well (ft) BTOC: 18.50
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 7.76
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 1.27

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	14:40	10.74
12/6/2011	13:05	10.85
12/6/2011	13:23	13.16
12/6/2011	13:33	13.20
12/6/2011	13:37	13.22
12/6/2011	13:41	13.19
12/6/2011	13:48	13.17

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/6/2011 13:18	0.25	6.56	1.219	19.59	35.0	0.57	-47.0	
13:22	0.75	6.49	1.274	20.02	45.0	0.46	-52.1	
13:26	1.25	6.45	1.310	20.13	24.0	0.30	-62.5	
13:30	1.75	6.43	1.335	20.15	10.0	0.22	-69.1	
13:34	2.25	6.41	1.349	20.28	6.50	0.19	-60.4	
13:38	2.75	6.40	1.358	20.31	4.10	0.18	-60.0	
13:42	3.25	6.38	1.365	20.18	2.10	0.17	-57.5	
13:46	3.75	6.38	1.375	20.24	2.10	0.16	-56.4	

Sample Identification: ASH-MW05-120611 ; ASH-RS1-120611 ; ASH-EB1-120611
Weather Conditions During Sampling: Light Rain, Windy, 46° F

Comments: RS1 taken from Solinst water level indicator sn#115133
EB1 and RS1 deionozed water supplied by Test America Savannah, Ga.
EB1 is simply an "equipment blank" check on the lab supplied DI H20
Signature: Date: 12/6/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/6/2011	13:50	3-40 mL VOA	Unpreserved
RS1	14:21	"	Unpreserved
EB1	14:25	"	Unpreserved

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Hercules)
Project Number: 11168
Boring ID: MW-06
Site Location: Hattiesburg, MS

Start Date: 12/7/2011 Finish Date: 12/7/2011
Sample Technician: Andrew Paradis
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches) 2"
Total Depth of Well (ft) BTOC: 23.25
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 13.34
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 2.18

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	14:51	9.87
12/7/2011	9:52	9.91
12/7/2011	10:17	10.91
12/7/2011	10:25	10.98
12/7/2011	10:32	11.03
12/7/2011	10:40	11.06
12/7/2011	10:48	11.07

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/7/2011 10:17	1.00	5.12	0.175	21.32	25.8	2.25	269.9	
12/7/2011 10:25	2.00	5.09	0.183	21.39	7.84	4.76	275.9	
12/7/2011 10:32	3.00	5.10	0.178	21.37	5.03	2.63	271.8	
12/7/2011 10:40	4.00	5.09	0.183	21.44	2.81	2.07	278.3	
12/7/2011 10:48	5.00	5.11	0.183	21.23	1.93	1.71	275.4	
12/7/2011 10:52	5.50	5.11	0.181	21.34	1.87	1.60	277.4	
12/7/2011 10:56	6.00	5.11	0.182	21.24	1.70	1.46	277.5	
12/7/2011 11:00	6.50	5.12	0.181	21.24	1.46	1.44	277.1	

Sample Identification: ASH-MW6-12072011

Weather Conditions During Sampling: ~ 4° C, Wind 10-20 MPH, Cloudy

Comments: Very turbid sample due to disturbance from bailer.

Signature: Date: 12/7/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/7/2011	11:02	3-40 mL VOA	Unpreserved

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Hercules)
Project Number: 11168
Boring ID: MW-07
Site Location: Hattiesburg, MS

Start Date: 12/8/2011 Finish Date: 12/8/2011
Sample Technician: Andrew Paradis
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches): 2"
Total Depth of Well (ft) BTOC: 22.95
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 7.18
Calculated Well Volume (V=6hd²)
(V = vol in gal; D = well diam. in ft): 1.17

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	15:52	15.74
12/8/2011	7:45	15.77
12/8/2011	8:07	16.08
12/8/2011	8:15	16.03
12/8/2011	8:19	16.03
12/8/2011	8:23	16.03
12/8/2011	8:27	16.04

WELL DEVELOPMENT/PURGING DATA

Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/8/2011 08:07	1.00	3.64	0.065	22.09	31.5	1.58	223.7	
12/8/2011 08:15	2.00	3.73	0.062	22.15	11.6	0.66	214.0	
12/8/2011 08:19	2.50	3.71	0.059	22.18	6.17	0.58	212.7	
12/8/2011 08:23	3.00	3.73	0.060	22.07	4.77	0.50	213.0	
12/8/2011 08:27	3.50	3.73	0.060	22.11	5.17	0.50	208.9	

Sample Identification: ASH-MW7-12082011

Weather Conditions During Sampling: ~ 2° C, Wind 5-10, Mostly Cloudy

Comments: Very turbid sample due to disturbance from bailer.

Signature: Date: 12/8/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/8/2011	08:29	3-40 mL VOA	Unpreserved

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Former Hercules Chemical)
Project Number: 11168
Boring ID: MW-08
Site Location: Hattiesburg, MS

Start Date: 12/7/2011 Finish Date: 12/7/2011
Sample Technician: Brent Eanes
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches): 2"
Total Depth of Well (ft) BTOC: 18.50
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 2.82
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 0.46

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	15:46	15.68
12/7/2011	11:30	15.76
12/7/2011	12:09	16.41
12/7/2011	12:15	16.37
12/7/2011	12:17	16.32

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/7/2011 12:03	0.25	6.20	0.955	21.72	85.0	0.72	-71.0	
12:06	0.50	6.19	0.963	22.46	65.0	0.39	-77.3	
12:08	0.75	6.18	0.959	22.54	Not Obtained	0.30	-78.0	
12:10	1.00	6.18	0.957	22.58	23.0	0.26	-78.5	
12:13	1.25	6.17	0.951	22.46	20.0	0.23	-78.4	
12:16	1.50	6.16	0.945	22.45	19.0	0.22	-77.9	

Sample Identification: ASH-MW08-120711, ASHMW08-120711-MS, ASH-MW08-120711-MSD, ASH-DUPA-120711, ASH-RS3-120711, ASH-EB2-120711
Weather Conditions During Sampling: Cloudy, Windy, 39° F
Comments: RS3 "Equipment Rinsate" was taken from Solinst Water level indicator sn#115133 using Test America DIH20. EB2 "Equipment Blank" is simply a check on the DI H20 provided by Test America Savannah, Ga.
Signature: Date: 12/7/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/7/2011	12:25	3-40 mL VOA	Unpreserved
MS	12:25	3-40 mL VOA	Unpreserved
MSD	12:25	3-40 mL VOA	Unpreserved
DUPA	12:25	3-40 mL VOA	Unpreserved
RS3	12:50	3-40 mL VOA	Unpreserved
EB2	12:08	3-40 mL VOA	Unpreserved

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Hercules)
Project Number: 11168
Boring ID: MW-09
Site Location: Hattiesburg, MS

Start Date: 12/8/2011 Finish Date: 12/8/2011
Sample Technician: Andrew Paradis
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches): 2"
Total Depth of Well (ft) BTOC: 20.10
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 6.61
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 1.08

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	16:00	13.49
12/8/2011	9:00	13.42
12/8/2011	9:18	13.59
12/8/2011	9:24	13.62
12/8/2011	9:27	13.64
12/8/2011	9:30	13.64
12/8/2011	9:33	13.64

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/8/2011 09:18	1.00	5.55	0.288	21.98	29.9	0.47	4.4	
12/8/2011 09:24	2.00	5.62	0.305	22.49	7.68	0.54	-17.3	
12/8/2011 09:27	2.50	5.62	0.303	22.59	3.57	0.46	-19.2	
12/8/2011 09:30	3.00	5.61	0.305	22.57	2.11	0.40	-21.0	
12/8/2011 09:33	3.50	5.62	0.304	22.60	2.21	0.40	-21.4	

Sample Identification: ASH-MW9-12082011

Weather Conditions During Sampling: ~ 4° C, Wind 5-10, Mostly Cloudy

Comments: Very turbid sample due to disturbance from bailer.

Signature: Date: 12/8/2010

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/8/2011	09:35	3-40 mL VOA	Unpreserved

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Former Hercules Chemical)
Project Number: 11168
Boring ID: MW-10
Site Location: Hattiesburg, MS

Start Date: 12/6/2011 Finish Date: 12/6/2011
Sample Technician: Brent Eanes
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches) 2"
Total Depth of Well (ft) BTOC: 18.50
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 6.48
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 1.06

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	13:54	12.02
12/6/2011	11:27	12.03
12/6/2011	11:35	12.41
12/6/2011	11:41	12.70
12/6/2011	11:46	13.02
12/6/2011	11:47	13.01
12/6/2011	11:48	13.02

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/6/2011 11:33	0.25	5.72	0.040	19.16	100	0.71	139.8	
11:37	1.25	5.68	0.038	19.75	110	0.48	164.9	
11:42	2.25	5.66	0.038	19.91	100	0.45	208.7	
11:46	3.25	5.66	0.038	19.92	100	0.41	221.9	
11:47	3.50	5.66	0.038	20.02	100	0.40	225.8	
11:48	3.75	5.67	0.038	20.04	110	0.38	221.1	

Sample Identification: ASH-MW10-120611

Weather Conditions During Sampling Cloudy, Windy, 49° F

Comments:

Signature: Date: 12/6/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/6/2011	11:52	3-40 mL VOA	Unpreserved

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Hercules)
Project Number: 11168
Boring ID: MW-11
Site Location: Hattiesburg, MS

Start Date: 12/6/2011 Finish Date: 12/6/2011
Sample Technician: Andrew Paradis
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches) 2"
Total Depth of Well (ft) BTOC: 17.00
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 8.16
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 1.33

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	14:02	8.80
12/6/2011	12:30	8.84
12/6/2011	12:45	9.08
12/6/2011	12:53	9.20
12/6/2011	12:59	9.25
12/6/2011	13:04	9.26
12/6/2011	13:06	9.26

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/6/2011 12:45	1.00	5.63	0.205	19.09	8.04	0.59	35.2	
12/1/2011 12:53	2.00	5.64	0.202	19.12	5.87	0.51	-29.7	
12/1/2011 12:59	3.00	5.62	0.203	19.14	4.99	0.23	-54.1	
12/1/2011 13:04	3.50	5.57	0.204	19.14	7.08	0.17	-55.2	
12/1/2011 13:06	4.00	5.52	0.204	19.12	8.11	0.15	-71.3	

Sample Identification: ASH-MW11-12062010

Weather Conditions During Sampling: ~ 9° C, Cloudy

Comments: Very turbid sample due to disturbance from bailer.

Signature: Date: 12/6/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/6/2011	13:08	3-40 mL VOA;	Unpreserved

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Hercules)
Project Number: 11168
Boring ID: MW-12
Site Location: Hattiesburg, MS

Start Date: 12/6/2011 Finish Date: 12/7/2011
Sample Technician: Andrew Paradis
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches) 2"
Total Depth of Well (ft) BTOC: 14.00
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 4.66
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 0.76

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	14:55	9.29
12/6/2011	13:35	9.34
12/6/2011	13:50	9.08
12/6/2011	13:53	11.82
12/6/2011	13:58	DRY
12/7/2011	9:33	9.08

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/6/2011 13:53	0.50	4.09	0.045	18.55	73.40	0.50	-74.6	
12/6/2011 13:58	Well dried up, mobilized to staging area.							

Sample Identification: ASH-MW12-12072011; ASH-RS2-12062011

Weather Conditions During Sampling: ~ 8° C, Cloudy & Rainy

Comments: Well dried up after low pumping rate. Wait for 80% recharge and sample.
Very turbid sample due to disturbance from bailer.

Signature: Date: 12/7/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/6/2011	14:23	3-40 mL VOA	Unpreserved
12/7/2011	09:37	3-40 mL VOA	Unpreserved

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Hercules)
Project Number: 11168
Boring ID: MW-13
Site Location: Hattiesburg, MS

Start Date: 12/8/2011 Finish Date: 12/8/2011
Sample Technician: Andrew Paradis
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches) 2"
Total Depth of Well (ft) BTOC: 19.15
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 9.09
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 1.48

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	15:39	10.04
12/8/2011	13:40	10.06
12/8/2011	13:49	10.28
12/8/2011	13:54	10.28
12/8/2011	13:59	10.28
12/8/2011	14:02	10.28
12/8/2011	14:07	10.28

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/8/2011 13:49	1.00	5.53	0.316	23.08	12.5	0.33	10.6	
12/8/2011 13:49	2.00	5.80	0.444	23.10	5.72	0.19	-27.0	
12/8/2011 13:49	3.00	5.89	0.478	23.10	4.35	0.10	-40.8	
12/8/2011 14:49	3.50	5.89	0.484	23.16	2.76	0.08	NA	
12/8/2011 14:49	4.00	5.89	0.419	23.24	2.02	0.08	-43.6	
12/8/2011 14:49	4.50	5.90	0.493	23.13	1.50	0.07	-44.2	

Sample Identification: ASH-MW13-12082011; ASH-RS4-12082011

Weather Conditions During Sampling: ~ 12° C, Wind 5-10, Partly Cloudy

Comments: Very turbid sample due to disturbance from bailer.

Signature: Date: 12/8/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/8/2011	14:09	3-40 mL VOA	Unpreserved
12/8/2011	14:09	3-40 mL VOA	Unpreserved

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Hercules)
Project Number: 11168
Boring ID: MW-14
Site Location: Hattiesburg, MS

Start Date: 12/8/2011 Finish Date: 12/8/2011
Sample Technician: Andrew Paradis
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches) 2"
Total Depth of Well (ft) BTOC: 25.10
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 9.51
Calculated Well Volume (V=6hd²)
(V = vol in gal; D = well diam. in ft): 1.55

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	14:35	15.75
12/8/2011	9:00	15.59
12/8/2011	10:27	18.40
12/8/2011	10:41	18.82
12/8/2011	10:55	18.86
12/8/2011	11:24	19.30
12/8/2011	11:56	19.54

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/8/2011 10:27	0.50	6.18	0.863	19.47	112.0	0.53	-56.4	Effervescence
12/8/2011 10:41	1.00	6.29	0.859	19.75	118.0	0.40	-25.5	Effervescence
12/8/2011 10:55	1.50	6.24	0.892	19.85	37.3	0.59	-2.4	Effervescence
12/8/2011 11:13	2.00	6.24	0.860	19.86	25.4	0.72	13.5	Effervescence
12/8/2011 11:24	2.50	6.22	0.872	21.34	32.2	0.57	20.7	Effervescence
12/8/2011 11:34	3.00	6.24	0.867	21.55	49.1	0.37	26.8	Effervescence
12/8/2011 11:42	3.50	6.22	0.863	21.73	60.0	0.32	42.7	Effervescence
12/8/2011 11:49	4.00	6.25	0.861	21.69	31.7	0.34	60.8	Effervescence
12/8/2011 11:56	4.50	6.24	0.863	21.58	15.30	0.37	68.3	Effervescence

Sample Identification: ASH-MW14-12082011

Weather Conditions During Sampling: ~ 9° C, Wind 5-10, Partly Cloudy

Comments: Very turbid sample due to disturbance from bailer.

Signature: Date: 12/8/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/8/2011	11:58	3-40 mL VOA	Unpreserved

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Hercules)
Project Number: 11168
Boring ID: MW-15
Site Location: Hattiesburg, MS

Start Date: 12/7/2011 Finish Date: 12/7/2011
Sample Technician: Andrew Paradis
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches) 2"
Total Depth of Well (ft) BTOC: 27.00
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 6.04
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 0.99

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	14:32	20.71
12/7/2011	15:45	20.96
12/7/2011	16:17	22.15
12/7/2011	16:28	22.10
12/7/2011	16:34	22.11
12/7/2011	16:41	22.11
12/7/2011	16:48	22.10

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/7/2011 16:17	1.00	6.27	1.019	21.32	12.7	1.60	-100.5	Effervescence
12/7/2011 16:28	2.00	6.29	1.024	21.45	4.80	0.35	-108.4	Effervescence
12/7/2011 16:34	2.50	6.29	1.025	21.40	2.65	0.35	-109.9	Effervescence
12/7/2011 16:41	3.00	6.30	1.026	21.45	2.53	0.32	-111.0	Effervescence
12/7/2011 16:48	3.50	6.29	1.028	21.30	2.31	0.29	-111.2	Effervescence

Sample Identification: ASH-MW15-12072011

Weather Conditions During Sampling: ~ 4° C, Wind 10-20 MPH, Cloudy

Comments: Very hig pump rate, low water production due to effervescencing water.
Very turbid sample due to disturbance from bailer.

Signature: Date: 12/7/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/7/2011	16:51	3-40 mL VOA	Unpreserved

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Former Hercules Chemical)
Project Number: 11168
Boring ID: MW-16
Site Location: Hattiesburg, MS

Start Date: 12/7/2011 Finish Date: 12/7/2011
Sample Technician: Brent Eanes
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches) 2"
Total Depth of Well (ft) BTOC: 28.50
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 10.83
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 1.77

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	14:29	17.67
12/7/2011	14:00	17.90
12/7/2011	14:58	17.91
12/7/2011	15:02	17.91
12/7/2011	15:20	17.92
12/7/2011	15:40	17.91

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/7/2011 14:30	0.25	5.87	1.050	18.98	12.00	0.95	-95.2	
14:56	0.50	5.91	1.047	19.40	13.00	0.50	-102.1	
14:58	0.75	5.94	1.047	19.77	Not Obtained	0.38	-102.6	
15:00	1.00	5.96	1.049	19.87	5.80	0.35	-101.5	
15:02	1.25	5.98	1.048	19.89	5.30	0.27	-99.8	
15:10	2.25	6.04	1.047	20.19	1.60	0.15	-104.4	
15:18	3.25	6.09	1.046	20.14	2.20	0.11	-84.1	
15:26	4.25	6.11	1.044	20.19	0.95	0.10	-83.7	
15:36	5.75	6.12	1.041	20.38	0.82	0.09	-82.1	
15:38	6.00	6.12	1.045	20.47	0.95	0.09	-81.2	
15:40	6.25	6.12	1.044	20.26	0.87	0.09	-88.1	

Sample Identification: ASH-MW16-120711

Weather Conditions During Sampling Cloudy, 41° F

Comments:

Signature: Date: 12/7/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/7/2011	15:45	3-40 mL VOA	Unpreserved

Eco-Systems, Inc.
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Groundwater Sample Collection Log

Project Name: Ashland Chemical (Hercules)
Project Number: 11168
Boring ID: MW-17
Site Location: Hattiesburg, MS

Start Date: 12/8/2011 Finish Date: 12/8/2011
Sample Technician: Andrew Paradis
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches) 2"
Total Depth of Well (ft) BTOC: 23.20
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 4.21
Calculated Well Volume (V=6hd²)
(V = vol in gal; D = well diam. in ft): 0.69

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	15:57	18.94
12/8/2011	15:10	18.99
12/8/2011	15:40	19.22
12/8/2011	15:44	19.25
12/8/2011	15:48	19.26
12/8/2011	15:52	19.30

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/8/2011 15:40	1.00	5.92	1.077	22.64	10.0	0.73	-89.0	
12/8/2011 15:44	1.50	5.93	1.173	22.73	NA	0.57	-93.9	
12/8/2011 15:48	2.00	5.93	1.163	22.76	4.20	0.63	-94.9	
12/8/2011 15:52	2.50	5.93	1.169	22.82	NA	0.63	-96.9	

Sample Identification: ASH-MW17-12082011

Weather Conditions During Sampling: ~ 10° C, Wind 5-10, Partly Cloudy

Comments: Very turbid sample due to disturbance from bailer.

Signature: Date: 12/8/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/8/2011	15:54	3-40 mL VOA	Unpreserved

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Groundwater Sample Collection Log

Project Name: Ashland Chemical (Former Hercules Chemical)
Project Number: 11168
Boring ID: MW-18
Site Location: Hattiesburg, MS

Start Date: 12/8/2011 Finish Date: 12/8/2011
Sample Technician: Brent Eanes
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches): 2"
Total Depth of Well (ft) BTOC: 17.30
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 10.95
Calculated Well Volume (V=6hd²)
(V = vol in gal; D = well diam. in ft): 1.79

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	15:31	6.62
12/8/2011	9:02	6.35
12/8/2011	9:12	6.48
12/8/2011	9:18	6.49
12/8/2011	9:21	6.50
12/8/2011	9:27	6.50
12/8/2011	9:52	6.51

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/8/2011 9:15	0.50	6.22	0.725	21.27	20.0	0.47	-33.2	
9:19	1.00	6.23	0.732	21.38	2.30	0.25	-37.0	
9:23	1.50	6.23	0.729	21.17	3.30	0.20	-37.3	
9:27	2.00	6.23	0.732	21.55	4.30	0.17	-38.5	
9:35	3.00	6.23	0.727	21.28	5.00	0.11	-39.8	
9:41	4.00	6.23	0.725	21.25	4.60	0.10	-40.9	
9:49	5.00	6.23	0.725	21.31	4.10	0.09	-40.5	
9:57	6.00	6.22	0.727	21.39	2.90	0.08	-41.8	

Sample Identification: ASH-MW18-120811

Weather Conditions During Sampling: Clear, 37° F

Comments:

Signature: Date: 12/8/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/8/2011	10:06	3-40 mL VOA	Unpreserved

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Former Hercules Chemical)
Project Number: 11168
Boring ID: MW-19
Site Location: Hattiesburg, MS

Start Date: 12/8/2011 Finish Date: 12/8/2011
Sample Technician: Brent Eanes
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches) 2"
Total Depth of Well (ft) BTOC: 21.10
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 8.93
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 1.46

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	15:10	12.12
12/8/2011	10:36	12.17
12/8/2011	10:48	12.34
12/8/2011	10:52	12.37
12/8/2011	11:07	12.39
12/8/2011	11:13	12.40
12/8/2011	11:19	12.40

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/8/2011 10:48	0.25	6.26	0.467	21.21	0.60	1.27	-52.7	
10:51	0.75	6.23	0.476	22.49	Not Obtained	0.79	-44.9	
10:54	1.25	6.23	0.476	22.73	0.50	0.52	-47.3	
10:57	1.75	6.23	0.478	23.06	0.40	0.37	-50.5	
11:01	2.25	6.23	0.479	22.98	0.15	0.31	-50.7	
11:05	2.75	6.22	0.478	23.13	0.05	0.22	-52.6	
11:08	3.25	6.22	0.478	23.32	0.05	0.19	-51.7	
11:12	3.50	6.22	0.478	23.45	0.00	0.15	-51.7	
11:16	4.00	6.22	0.476	23.34	0.00	0.12	-49.9	
11:20	4.50	6.21	0.475	23.44	0.00	0.10	-47.7	

Sample Identification: ASH-MW19-120811, ASH-DUPB-120811

Weather Conditions During Sampling Clear, 43° F

Comments:

Signature: Date: 12/8/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/8/2011	11:29	3-40 mL VOA	Unpreserved
DUPB	11:29	3-40 mL VOA	Unpreserved

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Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Former Hercules Chemical)
Project Number: 11168
Boring ID: MW-20
Site Location: Hattiesburg, MS

Start Date: 12/8/2011 Finish Date: 12/8/2011
Sample Technician: Brent Eanes
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches): 2"
Total Depth of Well (ft) BTOC: 14.00
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 6.64
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 1.08

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	15:27	7.36
12/8/2011	7:44	7.26
12/8/2011	7:59	7.34
12/8/2011	8:07	7.34
12/8/2011	8:18	7.34

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/8/2011 7:56	0.25	6.16	0.425	19.37	14.0	2.42	-29.4	
7:59	0.50	6.15	0.436	20.69	15.0	0.76	-34.0	
8:06	1.50	6.15	0.441	21.25	15.0	0.41	-33.7	
8:08	1.75	6.15	0.441	21.26	16.0	0.31	-32.0	
8:10	2.00	6.15	0.441	21.28	13.0	0.25	-31.0	
8:14	2.50	6.15	0.440	21.20	11.0	0.19	-28.3	
8:18	3.00	6.15	0.440	21.19	9.20	0.17	-26.4	
8:22	3.50	6.15	0.438	20.21	7.30	0.16	-24.7	

Sample Identification: ASH-MW20-120811

Weather Conditions During Sampling: PC, 35° F

Comments:

Signature: Date: 12/8/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/8/2011	8:26	3-40 mL VOA	Unpreserved

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Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Former Hercules Chemical)
Project Number: 11168
Boring ID: MW-21
Site Location: Hattiesburg, MS

Start Date: 12/8/2011 Finish Date: 12/8/2011
Sample Technician: Brent Eanes
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches): 2"
Total Depth of Well (ft) BTOC: 16.00
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 12.46
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 2.03

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	15:24	3.54
12/8/2011	15:26	3.61
12/8/2011	15:35	3.90
12/8/2011	15:47	3.85
12/8/2011	15:53	3.88
12/8/2011	16:04	3.90
12/8/2011	16:10	3.91

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/8/2011 15:26	0.25	5.60	1.087	20.90	2.60	1.21	-42.4	
15:29	0.50	5.56	1.100	21.32	3.50	1.31	-35.1	
15:35	1.00	5.52	1.102	21.79	2.70	0.56	-41.2	
15:41	2.00	5.46	1.241	22.98	1.50	0.40	-39.3	
15:47	3.00	5.46	1.329	23.17	0.65	0.25	-43.3	
15:50	3.50	5.46	1.327	22.93	0.90	0.23	-44.1	
15:53	4.00	5.45	1.328	23.11	0.60	0.22	-44.6	
15:58	4.50	5.45	1.344	23.03	0.65	0.18	-46.4	
16:04	5.50	5.44	1.332	22.83	0.45	0.15	-47.7	
16:10	6.50	5.43	1.343	22.87	0.35	0.15	-50.9	

Sample Identification: ASH-MW21-120811

Weather Conditions During Sampling: Clear, 50° F

Comments:

Signature: Date: 12/8/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/8/2011	16:14	3-40 mL VOA	Unpreserved

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Former Hercules Chemical)
Project Number: 11168
Boring ID: MW-22
Site Location: Hattiesburg, MS

Start Date: 12/8/2011 Finish Date: 12/8/2011
Sample Technician: Brent Eanes
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches): 2"
Total Depth of Well (ft) BTOC: 15.00
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 7.65
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 1.25

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	15:21	7.35
12/8/2011	13:52	8.06
12/8/2011	13:55	8.33
12/8/2011	14:01	8.61
12/8/2011	14:13	8.75
12/8/2011	14:25	8.83
12/8/2011	14:37	8.87

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/8/2011 13:52	0.25	6.24	0.460	20.82	2.30	0.99	-38.5	
13:55	0.50	6.29	0.465	21.17	1.30	0.42	-62.3	
13:58	0.75	6.37	0.490	21.12	Not Obtained	0.39	-74.1	
14:01	1.00	6.41	0.549	21.01	1.00	0.36	-78.3	
14:07	1.50	6.45	0.585	20.77	0.90	0.26	-83.5	
14:13	2.00	6.49	0.618	21.05	0.95	0.16	-87.8	
14:19	2.50	6.51	0.633	21.22	0.45	0.13	-88.8	
14:25	3.00	6.52	0.639	20.96	0.55	0.10	-87.6	
14:31	3.50	6.53	0.645	21.18	0.70	0.11	-87.5	
14:37	4.00	6.54	0.649	21.09	0.40	0.08	-88.6	

Sample Identification: ASH-MW22-120811, ASH-MW22-120811-MS, ASH-MW22-120811-MSD
Weather Conditions During Sampling: PC, 52° F

Comments:

Signature: Date: 12/8/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/8/2011	14:45	3-40 mL VOA	Unpreserved
MS	14:45	3-40 mL VOA	Unpreserved
MSD	14:45	3-40 mL VOA	Unpreserved

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Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Former Hercules Chemical)
Project Number: 11168
Boring ID: MW-23
Site Location: Hattiesburg, MS

Start Date: 12/9/2011 Finish Date: 12/9/2011
Sample Technician: Brent Eanes
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches): 2"
Total Depth of Well (ft) BTOC: 14.00
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 9.90
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 1.62

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	15:18	4.10
12/9/2011	8:05	3.98
12/9/2011	9:04	4.80
12/9/2011	9:10	4.91
12/9/2011	9:22	5.20
12/9/2011	9:28	5.25
12/9/2011	9:37	5.32

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/9/2011 9:02	0.25	6.06	0.668	18.83	Not Obtained	0.95	-80.8	
9:04	0.50	6.09	0.657	19.30	7.20	1.56	-79.0	
9:10	1.00	5.93	1.055	19.57	5.50	0.62	-75.6	
9:16	2.00	5.58	2.033	19.93	2.90	0.42	-100.9	
9:22	3.00	5.5	2.217	20.22	1.90	0.33	-105.1	
9:28	4.00	5.45	2.429	20.55	1.00	0.27	-122.9	
9:34	5.00	5.43	2.580	20.50	0.80	0.24	-140.9	
9:37	5.50	5.39	2.613	20.53	0.90	0.22	-151.2	

Sample Identification: ASH-MW23-120911, ASH-RS5-120911

Weather Conditions During Sampling: PC, 30° F

Comments: RS5 "Equipment Rinsate" was taken with Test America Supplied DI H2O poured over H2O Indicator SN#115133 after sampling this well.

Signature: Date: 12/9/2011

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/9/2011	9:42	3-40 mL VOA	Unpreserved
RS5	11:40	3-40 mL VOA	Unpreserved

Eco-Systems, Inc.
Environmental Engineers and Scientists

Groundwater Sample Collection Log

Project Name: Ashland Chemical (Hercules)
Project Number: 11168
Boring ID: MW-24
Site Location: Hattiesburg, MS

Start Date: 12/7/2011 Finish Date: 12/7/2011
Sample Technician: Andrew Paradis
Purge/Sample Method: Peristaltic Pump - Volume Based / Disposable Teflon Bailer
Well Diameter (inches) 2"
Total Depth of Well (ft) BTOC: 16.20
Approximate Depth of Water Column (ft)
(h= TD of well - water level [TOC]): 7.78
Calculated Well Volume ($V=6hd^2$)
(V = vol in gal; D = well diam. in ft): 1.27

Water Level Measurements		
Date	Time	Water Level (BTOC)
12/5/2011	14:10	8.59
12/7/2011	13:30	8.42
12/7/2011	13:52	9.86
12/7/2011	13:59	10.10
12/7/2011	14:10	10.35
12/7/2011	14:16	10.50
12/7/2011	14:22	10.57

WELL DEVELOPMENT/PURGING DATA								
Date/Time	Cumulative Volume (gal)	pH	Specific Conductivity (mScm)	Temperature (Celsius)	Turbidity (NTU)	D.O. (mg/l)	ORP (mv)	Comments
12/7/2011 13:52	1.00	6.21	0.278	19.81	43.5	0.41	11.8	
12/7/2011 13:59	1.50	6.27	0.283	19.17	27.3	0.45	-18.1	Slowed pumping rate way down
12/7/2011 14:10	2.00	6.28	0.288	19.30	16.1	0.35	-20.6	
12/7/2011 14:16	2.50	6.28	0.294	19.46	8.27	0.24	-20.1	
12/7/2011 14:22	3.00	6.27	0.295	19.51	6.03	0.24	-20.9	
12/7/2011 14:28	3.50	6.27	0.296	19.33	6.39	0.20	-20.1	
12/7/2011 14:34	4.00	6.27	0.295	19.38	4.10	0.20	-20.8	

Sample Identification: ASH-MW24-12072011

Weather Conditions During Sampling: ~ 4° C, Wind 10-20 MPH, Cloudy

Comments: Very turbid sample due to disturbance from bailer.

Signature: Date: 12/7/20111

GROUNDWATER SAMPLE CONTAINERS			
Date	Time	Sample Container	Preservative
12/7/2011	14:36	3-40 mL VOA	Unpreserved

ARCADIS

Appendix B

Laboratory Analytical Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-74946-1
Client Project/Site: Hercules Hattiesburg SA GW DEC 2011
Revision: 2

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Timothy Hassett

Authorized for release by:
1/10/2012 3:28:54 PM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

cc: Craig Derouen

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Job ID: 680-74946-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-74946-1 Revised (Rev2)

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Comments
The sample results were revised at the client's request to report results at the method detection limit (MDL) for Dichlorobromomethane and Chloroform.

No additional comments.

Sample Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-74946-1	ASH-CM00-120511	Water	12/05/11 12:25	12/06/11 11:07
680-74946-2	ASH-CM01-120511	Water	12/05/11 12:18	12/06/11 11:07
680-74946-3	ASH-CM02-120511	Water	12/05/11 12:10	12/06/11 11:07
680-74946-4	ASH-CM03-120511	Water	12/05/11 11:56	12/06/11 11:07
680-74946-5	ASH-CM04-120511	Water	12/05/11 11:35	12/06/11 11:07
680-74946-6	ASH-CM05-120511	Water	12/05/11 11:32	12/06/11 11:07
680-74946-7	Trip Blank Lot# 110211	Water	12/05/11 00:00	12/06/11 11:07

Method Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

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

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Qualifiers

GC/MS VOA

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

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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Client Sample ID: ASH-CM00-120511 — Lab Sample ID: 680-74946-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.76		0.14	0.14	ug/L	1		8260B	Total/NA

Client Sample ID: ASH-CM01-120511 — Lab Sample ID: 680-74946-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.27		0.14	0.14	ug/L	1		8260B	Total/NA

Client Sample ID: ASH-CM02-120511 — Lab Sample ID: 680-74946-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.20		0.14	0.14	ug/L	1		8260B	Total/NA

Client Sample ID: ASH-CM03-120511 — Lab Sample ID: 680-74946-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.30	J	1.0	0.25	ug/L	1		8260B	Total/NA

Client Sample ID: ASH-CM04-120511 — Lab Sample ID: 680-74946-5

No Detections

Client Sample ID: ASH-CM05-120511 — Lab Sample ID: 680-74946-6

No Detections

Client Sample ID: Trip Blank Lot# 110211 — Lab Sample ID: 680-74946-7

No Detections

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Client Sample ID: ASH-CM00-120511
Date Collected: 12/05/11 12:25
Date Received: 12/06/11 11:07

Lab Sample ID: 680-74946-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/09/11 16:07	1
Acetonitrile	40	U	40	10	ug/L			12/09/11 16:07	1
Acrolein	20	U	20	7.4	ug/L			12/09/11 16:07	1
Acrylonitrile	20	U	20	7.2	ug/L			12/09/11 16:07	1
Benzene	1.0	U	1.0	0.25	ug/L			12/09/11 16:07	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/09/11 16:07	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/09/11 16:07	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/09/11 16:07	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/09/11 16:07	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/09/11 16:07	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/09/11 16:07	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/09/11 16:07	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/09/11 16:07	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/09/11 16:07	1
Chloroform	**0.76**		0.14	0.14	ug/L			12/09/11 16:07	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/09/11 16:07	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/09/11 16:07	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/09/11 16:07	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/09/11 16:07	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/09/11 16:07	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/09/11 16:07	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/09/11 16:07	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/09/11 16:07	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/09/11 16:07	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/09/11 16:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/09/11 16:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/09/11 16:07	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/09/11 16:07	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/09/11 16:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/09/11 16:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/09/11 16:07	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/09/11 16:07	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/09/11 16:07	1
2-Hexanone	10	U	10	1.0	ug/L			12/09/11 16:07	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/09/11 16:07	1
Isobutyl alcohol	40	U	40	11	ug/L			12/09/11 16:07	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/09/11 16:07	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/09/11 16:07	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/09/11 16:07	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/09/11 16:07	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/09/11 16:07	1
Propionitrile	20	U	20	4.6	ug/L			12/09/11 16:07	1
Styrene	1.0	U	1.0	0.11	ug/L			12/09/11 16:07	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/09/11 16:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/09/11 16:07	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/09/11 16:07	1
Toluene	1.0	U	1.0	0.33	ug/L			12/09/11 16:07	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/09/11 16:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/09/11 16:07	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/09/11 16:07	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Client Sample ID: ASH-CM00-120511
Date Collected: 12/05/11 12:25
Date Received: 12/06/11 11:07

Lab Sample ID: 680-74946-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/09/11 16:07	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/09/11 16:07	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/09/11 16:07	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/09/11 16:07	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/09/11 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*70 - 130*		*12/09/11 16:07*	*1*
Dibromofluoromethane	*86*		*70 - 130*		*12/09/11 16:07*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*12/09/11 16:07*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Client Sample ID: ASH-CM01-120511
Date Collected: 12/05/11 12:18
Date Received: 12/06/11 11:07

Lab Sample ID: 680-74946-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/09/11 16:36	1
Acetonitrile	40	U	40	10	ug/L			12/09/11 16:36	1
Acrolein	20	U	20	7.4	ug/L			12/09/11 16:36	1
Acrylonitrile	20	U	20	7.2	ug/L			12/09/11 16:36	1
Benzene	1.0	U	1.0	0.25	ug/L			12/09/11 16:36	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/09/11 16:36	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/09/11 16:36	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/09/11 16:36	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/09/11 16:36	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/09/11 16:36	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/09/11 16:36	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/09/11 16:36	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/09/11 16:36	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/09/11 16:36	1
Chloroform	**0.27**		0.14	0.14	ug/L			12/09/11 16:36	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/09/11 16:36	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/09/11 16:36	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/09/11 16:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/09/11 16:36	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/09/11 16:36	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/09/11 16:36	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/09/11 16:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/09/11 16:36	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/09/11 16:36	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/09/11 16:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/09/11 16:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/09/11 16:36	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/09/11 16:36	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/09/11 16:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/09/11 16:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/09/11 16:36	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/09/11 16:36	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/09/11 16:36	1
2-Hexanone	10	U	10	1.0	ug/L			12/09/11 16:36	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/09/11 16:36	1
Isobutyl alcohol	40	U	40	11	ug/L			12/09/11 16:36	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/09/11 16:36	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/09/11 16:36	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/09/11 16:36	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/09/11 16:36	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/09/11 16:36	1
Propionitrile	20	U	20	4.6	ug/L			12/09/11 16:36	1
Styrene	1.0	U	1.0	0.11	ug/L			12/09/11 16:36	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/09/11 16:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/09/11 16:36	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/09/11 16:36	1
Toluene	1.0	U	1.0	0.33	ug/L			12/09/11 16:36	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/09/11 16:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/09/11 16:36	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/09/11 16:36	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Client Sample ID: ASH-CM01-120511
Date Collected: 12/05/11 12:18
Date Received: 12/06/11 11:07

Lab Sample ID: 680-74946-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/09/11 16:36	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/09/11 16:36	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/09/11 16:36	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/09/11 16:36	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/09/11 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*12/09/11 16:36*	*1*
Dibromofluoromethane	*84*		*70 - 130*		*12/09/11 16:36*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*12/09/11 16:36*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Client Sample ID: ASH-CM02-120511
Date Collected: 12/05/11 12:10
Date Received: 12/06/11 11:07

Lab Sample ID: 680-74946-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/09/11 17:05	1
Acetonitrile	40	U	40	10	ug/L			12/09/11 17:05	1
Acrolein	20	U	20	7.4	ug/L			12/09/11 17:05	1
Acrylonitrile	20	U	20	7.2	ug/L			12/09/11 17:05	1
Benzene	1.0	U	1.0	0.25	ug/L			12/09/11 17:05	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/09/11 17:05	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/09/11 17:05	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/09/11 17:05	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/09/11 17:05	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/09/11 17:05	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/09/11 17:05	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/09/11 17:05	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/09/11 17:05	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/09/11 17:05	1
Chloroform	**0.20**		0.14	0.14	ug/L			12/09/11 17:05	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/09/11 17:05	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/09/11 17:05	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/09/11 17:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/09/11 17:05	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/09/11 17:05	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/09/11 17:05	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/09/11 17:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/09/11 17:05	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/09/11 17:05	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/09/11 17:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/09/11 17:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/09/11 17:05	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/09/11 17:05	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/09/11 17:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/09/11 17:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/09/11 17:05	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/09/11 17:05	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/09/11 17:05	1
2-Hexanone	10	U	10	1.0	ug/L			12/09/11 17:05	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/09/11 17:05	1
Isobutyl alcohol	40	U	40	11	ug/L			12/09/11 17:05	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/09/11 17:05	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/09/11 17:05	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/09/11 17:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/09/11 17:05	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/09/11 17:05	1
Propionitrile	20	U	20	4.6	ug/L			12/09/11 17:05	1
Styrene	1.0	U	1.0	0.11	ug/L			12/09/11 17:05	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/09/11 17:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/09/11 17:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/09/11 17:05	1
Toluene	1.0	U	1.0	0.33	ug/L			12/09/11 17:05	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/09/11 17:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/09/11 17:05	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/09/11 17:05	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Client Sample ID: ASH-CM02-120511
Date Collected: 12/05/11 12:10
Date Received: 12/06/11 11:07

Lab Sample ID: 680-74946-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/09/11 17:05	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/09/11 17:05	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/09/11 17:05	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/09/11 17:05	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/09/11 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*12/09/11 17:05*	*1*
Dibromofluoromethane	*85*		*70 - 130*		*12/09/11 17:05*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*12/09/11 17:05*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Client Sample ID: ASH-CM03-120511
Date Collected: 12/05/11 11:56
Date Received: 12/06/11 11:07

Lab Sample ID: 680-74946-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/09/11 17:33	1
Acetonitrile	40	U	40	10	ug/L			12/09/11 17:33	1
Acrolein	20	U	20	7.4	ug/L			12/09/11 17:33	1
Acrylonitrile	20	U	20	7.2	ug/L			12/09/11 17:33	1
Benzene	**0.30**	**J**	1.0	0.25	ug/L			12/09/11 17:33	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/09/11 17:33	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/09/11 17:33	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/09/11 17:33	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/09/11 17:33	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/09/11 17:33	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/09/11 17:33	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/09/11 17:33	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/09/11 17:33	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/09/11 17:33	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/09/11 17:33	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/09/11 17:33	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/09/11 17:33	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/09/11 17:33	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/09/11 17:33	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/09/11 17:33	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/09/11 17:33	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/09/11 17:33	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/09/11 17:33	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/09/11 17:33	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/09/11 17:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/09/11 17:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/09/11 17:33	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/09/11 17:33	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/09/11 17:33	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/09/11 17:33	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/09/11 17:33	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/09/11 17:33	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/09/11 17:33	1
2-Hexanone	10	U	10	1.0	ug/L			12/09/11 17:33	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/09/11 17:33	1
Isobutyl alcohol	40	U	40	11	ug/L			12/09/11 17:33	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/09/11 17:33	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/09/11 17:33	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/09/11 17:33	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/09/11 17:33	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/09/11 17:33	1
Propionitrile	20	U	20	4.6	ug/L			12/09/11 17:33	1
Styrene	1.0	U	1.0	0.11	ug/L			12/09/11 17:33	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/09/11 17:33	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/09/11 17:33	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/09/11 17:33	1
Toluene	1.0	U	1.0	0.33	ug/L			12/09/11 17:33	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/09/11 17:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/09/11 17:33	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/09/11 17:33	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Client Sample ID: ASH-CM03-120511
Date Collected: 12/05/11 11:56
Date Received: 12/06/11 11:07

Lab Sample ID: 680-74946-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/09/11 17:33	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/09/11 17:33	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/09/11 17:33	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/09/11 17:33	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/09/11 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*12/09/11 17:33*	*1*
Dibromofluoromethane	*83*		*70 - 130*		*12/09/11 17:33*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*12/09/11 17:33*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Client Sample ID: ASH-CM04-120511
Date Collected: 12/05/11 11:35
Date Received: 12/06/11 11:07

Lab Sample ID: 680-74946-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/09/11 18:02	1
Acetonitrile	40	U	40	10	ug/L			12/09/11 18:02	1
Acrolein	20	U	20	7.4	ug/L			12/09/11 18:02	1
Acrylonitrile	20	U	20	7.2	ug/L			12/09/11 18:02	1
Benzene	1.0	U	1.0	0.25	ug/L			12/09/11 18:02	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/09/11 18:02	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/09/11 18:02	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/09/11 18:02	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/09/11 18:02	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/09/11 18:02	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/09/11 18:02	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/09/11 18:02	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/09/11 18:02	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/09/11 18:02	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/09/11 18:02	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/09/11 18:02	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/09/11 18:02	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/09/11 18:02	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/09/11 18:02	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/09/11 18:02	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/09/11 18:02	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/09/11 18:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/09/11 18:02	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/09/11 18:02	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/09/11 18:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/09/11 18:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/09/11 18:02	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/09/11 18:02	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/09/11 18:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/09/11 18:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/09/11 18:02	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/09/11 18:02	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/09/11 18:02	1
2-Hexanone	10	U	10	1.0	ug/L			12/09/11 18:02	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/09/11 18:02	1
Isobutyl alcohol	40	U	40	11	ug/L			12/09/11 18:02	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/09/11 18:02	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/09/11 18:02	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/09/11 18:02	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/09/11 18:02	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/09/11 18:02	1
Propionitrile	20	U	20	4.6	ug/L			12/09/11 18:02	1
Styrene	1.0	U	1.0	0.11	ug/L			12/09/11 18:02	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/09/11 18:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/09/11 18:02	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/09/11 18:02	1
Toluene	1.0	U	1.0	0.33	ug/L			12/09/11 18:02	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/09/11 18:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/09/11 18:02	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/09/11 18:02	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Client Sample ID: ASH-CM04-120511
Date Collected: 12/05/11 11:35
Date Received: 12/06/11 11:07

Lab Sample ID: 680-74946-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/09/11 18:02	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/09/11 18:02	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/09/11 18:02	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/09/11 18:02	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/09/11 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*12/09/11 18:02*	*1*
Dibromofluoromethane	*82*		*70 - 130*		*12/09/11 18:02*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*12/09/11 18:02*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Client Sample ID: ASH-CM05-120511
Date Collected: 12/05/11 11:32
Date Received: 12/06/11 11:07

Lab Sample ID: 680-74946-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/09/11 18:30	1
Acetonitrile	40	U	40	10	ug/L			12/09/11 18:30	1
Acrolein	20	U	20	7.4	ug/L			12/09/11 18:30	1
Acrylonitrile	20	U	20	7.2	ug/L			12/09/11 18:30	1
Benzene	1.0	U	1.0	0.25	ug/L			12/09/11 18:30	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/09/11 18:30	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/09/11 18:30	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/09/11 18:30	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/09/11 18:30	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/09/11 18:30	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/09/11 18:30	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/09/11 18:30	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/09/11 18:30	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/09/11 18:30	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/09/11 18:30	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/09/11 18:30	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/09/11 18:30	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/09/11 18:30	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/09/11 18:30	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/09/11 18:30	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/09/11 18:30	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/09/11 18:30	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/09/11 18:30	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/09/11 18:30	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/09/11 18:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/09/11 18:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/09/11 18:30	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/09/11 18:30	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/09/11 18:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/09/11 18:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/09/11 18:30	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/09/11 18:30	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/09/11 18:30	1
2-Hexanone	10	U	10	1.0	ug/L			12/09/11 18:30	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/09/11 18:30	1
Isobutyl alcohol	40	U	40	11	ug/L			12/09/11 18:30	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/09/11 18:30	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/09/11 18:30	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/09/11 18:30	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/09/11 18:30	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/09/11 18:30	1
Propionitrile	20	U	20	4.6	ug/L			12/09/11 18:30	1
Styrene	1.0	U	1.0	0.11	ug/L			12/09/11 18:30	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/09/11 18:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/09/11 18:30	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/09/11 18:30	1
Toluene	1.0	U	1.0	0.33	ug/L			12/09/11 18:30	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/09/11 18:30	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/09/11 18:30	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/09/11 18:30	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Client Sample ID: ASH-CM05-120511
Date Collected: 12/05/11 11:32
Date Received: 12/06/11 11:07

Lab Sample ID: 680-74946-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/09/11 18:30	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/09/11 18:30	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/09/11 18:30	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/09/11 18:30	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/09/11 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*70 - 130*		*12/09/11 18:30*	*1*
Dibromofluoromethane	*84*		*70 - 130*		*12/09/11 18:30*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*12/09/11 18:30*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Client Sample ID: Trip Blank Lot# 110211
Date Collected: 12/05/11 00:00
Date Received: 12/06/11 11:07

Lab Sample ID: 680-74946-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/09/11 15:10	1
Acetonitrile	40	U	40	10	ug/L			12/09/11 15:10	1
Acrolein	20	U	20	7.4	ug/L			12/09/11 15:10	1
Acrylonitrile	20	U	20	7.2	ug/L			12/09/11 15:10	1
Benzene	1.0	U	1.0	0.25	ug/L			12/09/11 15:10	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/09/11 15:10	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/09/11 15:10	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/09/11 15:10	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/09/11 15:10	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/09/11 15:10	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/09/11 15:10	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/09/11 15:10	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/09/11 15:10	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/09/11 15:10	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/09/11 15:10	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/09/11 15:10	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/09/11 15:10	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/09/11 15:10	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/09/11 15:10	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/09/11 15:10	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/09/11 15:10	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/09/11 15:10	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/09/11 15:10	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/09/11 15:10	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/09/11 15:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/09/11 15:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/09/11 15:10	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/09/11 15:10	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/09/11 15:10	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/09/11 15:10	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/09/11 15:10	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/09/11 15:10	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/09/11 15:10	1
2-Hexanone	10	U	10	1.0	ug/L			12/09/11 15:10	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/09/11 15:10	1
Isobutyl alcohol	40	U	40	11	ug/L			12/09/11 15:10	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/09/11 15:10	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/09/11 15:10	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/09/11 15:10	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/09/11 15:10	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/09/11 15:10	1
Propionitrile	20	U	20	4.6	ug/L			12/09/11 15:10	1
Styrene	1.0	U	1.0	0.11	ug/L			12/09/11 15:10	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/09/11 15:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/09/11 15:10	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/09/11 15:10	1
Toluene	1.0	U	1.0	0.33	ug/L			12/09/11 15:10	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/09/11 15:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/09/11 15:10	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/09/11 15:10	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Client Sample ID: Trip Blank Lot# 110211
Date Collected: 12/05/11 00:00
Date Received: 12/06/11 11:07

Lab Sample ID: 680-74946-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/09/11 15:10	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/09/11 15:10	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/09/11 15:10	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/09/11 15:10	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/09/11 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 130*		*12/09/11 15:10*	*1*
Dibromofluoromethane	*87*		*70 - 130*		*12/09/11 15:10*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*12/09/11 15:10*	*1*

Surrogate Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-74946-1	ASH-CM00-120511	91	86	99
680-74946-2	ASH-CM01-120511	92	84	111
680-74946-3	ASH-CM02-120511	92	85	112
680-74946-4	ASH-CM03-120511	93	83	114
680-74946-5	ASH-CM04-120511	92	82	113
680-74946-6	ASH-CM05-120511	91	84	111
680-74946-7	Trip Blank Lot# 110211	99	87	113
LCS 680-223228/4	Lab Control Sample	102	93	105
LCSD 680-223228/23	Lab Control Sample Dup	110	105	112
MB 680-223228/7	Method Blank	92	91	94

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-223228/7
Matrix: Water
Analysis Batch: 223228

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/09/11 12:47	1
Acetonitrile	40	U	40	10	ug/L			12/09/11 12:47	1
Acrolein	20	U	20	7.4	ug/L			12/09/11 12:47	1
Acrylonitrile	20	U	20	7.2	ug/L			12/09/11 12:47	1
Benzene	1.0	U	1.0	0.25	ug/L			12/09/11 12:47	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/09/11 12:47	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/09/11 12:47	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/09/11 12:47	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/09/11 12:47	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/09/11 12:47	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/09/11 12:47	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/09/11 12:47	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/09/11 12:47	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/09/11 12:47	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/09/11 12:47	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/09/11 12:47	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/09/11 12:47	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/09/11 12:47	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/09/11 12:47	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/09/11 12:47	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/09/11 12:47	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/09/11 12:47	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/09/11 12:47	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/09/11 12:47	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/09/11 12:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/09/11 12:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/09/11 12:47	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/09/11 12:47	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/09/11 12:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/09/11 12:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/09/11 12:47	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/09/11 12:47	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/09/11 12:47	1
2-Hexanone	10	U	10	1.0	ug/L			12/09/11 12:47	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/09/11 12:47	1
Isobutyl alcohol	40	U	40	11	ug/L			12/09/11 12:47	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/09/11 12:47	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/09/11 12:47	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/09/11 12:47	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/09/11 12:47	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/09/11 12:47	1
Propionitrile	20	U	20	4.6	ug/L			12/09/11 12:47	1
Styrene	1.0	U	1.0	0.11	ug/L			12/09/11 12:47	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/09/11 12:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/09/11 12:47	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/09/11 12:47	1
Toluene	1.0	U	1.0	0.33	ug/L			12/09/11 12:47	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/09/11 12:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/09/11 12:47	1

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

Lab Sample ID: MB 680-223228/7
Matrix: Water
Analysis Batch: 223228

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/09/11 12:47	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/09/11 12:47	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/09/11 12:47	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/09/11 12:47	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/09/11 12:47	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/09/11 12:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*12/09/11 12:47*	*1*
Dibromofluoromethane	*91*		*70 - 130*		*12/09/11 12:47*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*12/09/11 12:47*	*1*

Lab Sample ID: LCS 680-223228/4
Matrix: Water
Analysis Batch: 223228

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	92.3		ug/L		92	26 - 180
Benzene	50.0	54.3		ug/L		109	70 - 130
Dichlorobromomethane	50.0	55.3		ug/L		111	70 - 130
Bromoform	50.0	48.2		ug/L		96	70 - 130
Bromomethane	50.0	33.6		ug/L		67	23 - 165
2-Butanone (MEK)	100	98.7		ug/L		99	49 - 172
Carbon disulfide	50.0	49.5		ug/L		99	54 - 132
Carbon tetrachloride	50.0	55.1		ug/L		110	70 - 130
Chlorobenzene	50.0	48.4		ug/L		97	70 - 130
Chloroethane	50.0	49.5		ug/L		99	56 - 152
Chloroform	50.0	48.0		ug/L		96	70 - 130
Chloromethane	50.0	47.6		ug/L		95	70 - 130
Chlorodibromomethane	50.0	42.9		ug/L		86	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	40.4		ug/L		81	70 - 130
Ethylene Dibromide	50.0	52.3		ug/L		105	70 - 130
Dibromomethane	50.0	52.7		ug/L		105	70 - 130
Dichlorodifluoromethane	50.0	47.3		ug/L		95	44 - 146
1,1-Dichloroethane	50.0	50.9		ug/L		102	70 - 130
1,2-Dichloroethane	50.0	54.9		ug/L		110	70 - 130
cis-1,2-Dichloroethene	50.0	47.3		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	47.3		ug/L		95	70 - 130
1,1-Dichloroethene	50.0	47.8		ug/L		96	66 - 131
1,2-Dichloropropane	50.0	53.4		ug/L		107	70 - 130
cis-1,3-Dichloropropene	50.0	55.2		ug/L		110	70 - 130
trans-1,3-Dichloropropene	50.0	57.5		ug/L		115	70 - 130
Ethylbenzene	50.0	50.9		ug/L		102	70 - 130
2-Hexanone	100	107		ug/L		107	42 - 185
Methylene Chloride	50.0	46.5		ug/L		93	67 - 130
4-Methyl-2-pentanone (MIBK)	100	111		ug/L		111	70 - 130
Styrene	50.0	52.0		ug/L		104	70 - 130
1,1,1,2-Tetrachloroethane	50.0	42.4		ug/L		85	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.6		ug/L		101	70 - 130

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

Lab Sample ID: LCS 680-223228/4
Matrix: Water
Analysis Batch: 223228

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Tetrachloroethene			50.0	43.6		ug/L		87	70 - 130		
Toluene			50.0	52.8		ug/L		106	70 - 130		
1,1,1-Trichloroethane			50.0	53.5		ug/L		107	70 - 130		
1,1,2-Trichloroethane			50.0	53.4		ug/L		107	70 - 130		
Trichloroethene			50.0	49.6		ug/L		99	70 - 130		
Trichlorofluoromethane			50.0	55.3		ug/L		111	55 - 156		
1,2,3-Trichloropropane			50.0	48.4		ug/L		97	70 - 130		
Vinyl acetate			100	114		ug/L		114	60 - 176		
Vinyl chloride			50.0	50.9		ug/L		102	67 - 134		
Xylenes, Total			150	152		ug/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*70 - 130*
Dibromofluoromethane	*93*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 680-223228/23
Matrix: Water
Analysis Batch: 223228

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
Acetone			100	98.9		ug/L		99	26 - 180	7	50
Benzene			50.0	57.3		ug/L		115	70 - 130	5	30
Dichlorobromomethane			50.0	59.5		ug/L		119	70 - 130	7	30
Bromoform			50.0	57.7		ug/L		115	70 - 130	18	30
Bromomethane			50.0	41.1		ug/L		82	23 - 165	20	50
2-Butanone (MEK)			100	112		ug/L		112	49 - 172	12	30
Carbon disulfide			50.0	52.1		ug/L		104	54 - 132	5	30
Carbon tetrachloride			50.0	59.6		ug/L		119	70 - 130	8	30
Chlorobenzene			50.0	53.7		ug/L		107	70 - 130	11	30
Chloroethane			50.0	51.1		ug/L		102	56 - 152	3	40
Chloroform			50.0	53.0		ug/L		106	70 - 130	10	30
Chloromethane			50.0	51.0		ug/L		102	70 - 130	7	30
Chlorodibromomethane			50.0	48.4		ug/L		97	70 - 130	12	50
1,2-Dibromo-3-Chloropropane			50.0	46.8		ug/L		94	70 - 130	15	50
Ethylene Dibromide			50.0	61.6		ug/L		123	70 - 130	16	30
Dibromomethane			50.0	56.8		ug/L		114	70 - 130	8	30
Dichlorodifluoromethane			50.0	51.1		ug/L		102	44 - 146	8	50
1,1-Dichloroethane			50.0	53.7		ug/L		107	70 - 130	5	30
1,2-Dichloroethane			50.0	58.3		ug/L		117	70 - 130	6	30
cis-1,2-Dichloroethene			50.0	51.3		ug/L		103	70 - 130	8	30
trans-1,2-Dichloroethene			50.0	50.2		ug/L		100	70 - 130	6	30
1,1-Dichloroethene			50.0	49.5		ug/L		99	66 - 131	3	30
1,2-Dichloropropane			50.0	57.8		ug/L		116	70 - 130	8	30
cis-1,3-Dichloropropene			50.0	58.6		ug/L		117	70 - 130	6	30
trans-1,3-Dichloropropene			50.0	63.4		ug/L		127	70 - 130	10	50
Ethylbenzene			50.0	55.6		ug/L		111	70 - 130	9	30
2-Hexanone			100	115		ug/L		115	42 - 185	7	30
Methylene Chloride			50.0	50.3		ug/L		101	67 - 130	8	30

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

Lab Sample ID: LCSD 680-223228/23
Matrix: Water
Analysis Batch: 223228

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 (MIBK)			100	121		ug/L		121	70 - 130	9	30
Styrene			50.0	57.9		ug/L		116	70 - 130	11	30
1,1,1,2-Tetrachloroethane			50.0	48.5		ug/L		97	70 - 130	13	30
1,1,2,2-Tetrachloroethane			50.0	55.0		ug/L		110	70 - 130	8	30
Tetrachloroethene			50.0	50.1		ug/L		100	70 - 130	14	30
Toluene			50.0	57.1		ug/L		114	70 - 130	8	30
1,1,1-Trichloroethane			50.0	56.9		ug/L		114	70 - 130	6	30
1,1,2-Trichloroethane			50.0	59.7		ug/L		119	70 - 130	11	30
Trichloroethene			50.0	53.1		ug/L		106	70 - 130	7	30
Trichlorofluoromethane			50.0	56.6		ug/L		113	55 - 156	2	30
1,2,3-Trichloropropane			50.0	54.2		ug/L		108	70 - 130	11	30
Vinyl acetate			100	121		ug/L		121	60 - 176	6	30
Vinyl chloride			50.0	52.7		ug/L		105	67 - 134	3	30
Xylenes, Total			150	167		ug/L		111	70 - 130	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*70 - 130*
Dibromofluoromethane	*105*		*70 - 130*
Toluene-d8 (Surr)	*112*		*70 - 130*

QC Association Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

GC/MS VOA

Analysis Batch: 223228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-74946-1	ASH-CM00-120511	Total/NA	Water	8260B	
680-74946-2	ASH-CM01-120511	Total/NA	Water	8260B	
680-74946-3	ASH-CM02-120511	Total/NA	Water	8260B	
680-74946-4	ASH-CM03-120511	Total/NA	Water	8260B	
680-74946-5	ASH-CM04-120511	Total/NA	Water	8260B	
680-74946-6	ASH-CM05-120511	Total/NA	Water	8260B	
680-74946-7	Trip Blank Lot# 110211	Total/NA	Water	8260B	
LCS 680-223228/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-223228/23	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-223228/7	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Client Sample ID: ASH-CM00-120511
Lab Sample ID: 680-74946-1
Date Collected: 12/05/11 12:25
Matrix: Water
Date Received: 12/06/11 11:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223228	12/09/11 16:07	RB	TAL SAV

Client Sample ID: ASH-CM01-120511
Lab Sample ID: 680-74946-2
Date Collected: 12/05/11 12:18
Matrix: Water
Date Received: 12/06/11 11:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223228	12/09/11 16:36	RB	TAL SAV

Client Sample ID: ASH-CM02-120511
Lab Sample ID: 680-74946-3
Date Collected: 12/05/11 12:10
Matrix: Water
Date Received: 12/06/11 11:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223228	12/09/11 17:05	RB	TAL SAV

Client Sample ID: ASH-CM03-120511
Lab Sample ID: 680-74946-4
Date Collected: 12/05/11 11:56
Matrix: Water
Date Received: 12/06/11 11:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223228	12/09/11 17:33	RB	TAL SAV

Client Sample ID: ASH-CM04-120511
Lab Sample ID: 680-74946-5
Date Collected: 12/05/11 11:35
Matrix: Water
Date Received: 12/06/11 11:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223228	12/09/11 18:02	RB	TAL SAV

Client Sample ID: ASH-CM05-120511
Lab Sample ID: 680-74946-6
Date Collected: 12/05/11 11:32
Matrix: Water
Date Received: 12/06/11 11:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223228	12/09/11 18:30	RB	TAL SAV

Client Sample ID: Trip Blank Lot# 110211
Lab Sample ID: 680-74946-7
Date Collected: 12/05/11 00:00
Matrix: Water
Date Received: 12/06/11 11:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223228	12/09/11 15:10	RB	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Custody Seal # 970428

Bottle Order 37625

Serial Number 49056

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Ashland Semi-Annual GM	11168	MS
TAL (LAB) PROJECT MANAGER	**P.O. NUMBER**	**CONTRACT NO.**
Lidya Gulizia	4501789838	
CLIENT (SITE) PM	**CLIENT PHONE**	**CLIENT FAX**
Tim Hassett	302-995-3456	995-3485
CLIENT NAME	**CLIENT E-MAIL**	
Ashland Chemical	tdhassett@ashland.com	
CLIENT ADDRESS 500 Hercules Road Wilmington, DE. 19808-1599		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 4w-APP VOC	NUMBER OF CONTAINERS SUBMITTED	REMARKS
~~12-5-11~~	~~CBE~~	~~CM~~ CBE						~~X~~ CBE		NOTE: QAPP RL's / Equis EDD (Arcadis Format)
12-5-11	1225	ASH-CM00-120511							3	
12-5-11	1218	ASH-CM01-120511							3	
12-5-11	1210	ASH-CM02-120511							3	
12-5-11	1156	ASH-CM03-120511							3	
12-5-11	1135	ASH-CM04-120511							3	
12-5-11	1132	ASH-CM05-120511							3	
12-5-11	NA	Trip blank lot # 110211							2	

CBE CBE

Page 30 of 32

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	12-5-11	1558						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-	LABORATORY REMARKS
Ruth A Doughty	12/06/11	1107	YES ○ NO ○		74946	Temp 3.2°C

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-74946-1

Login Number: 74946

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is 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	3.2 C
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?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for MS/MSD.
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg SA GW DEC 2011

TestAmerica Job ID: 680-74946-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-75007-1
Client Project/Site: Hercules Hattiesburg - SA GW DEC 2011
Revision: 2

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Timothy Hassett

Authorized for release by:
1/10/2012 3:43:08 PM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

cc: Craig Derouen

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Case Narrative

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Job ID: 680-75007-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-75007-1 Revised (Rev 2)

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) for Iodomethane associated with batch 223411 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Comments
The sample results were revised at the client's request to report results at the method detection limit (MDL) for Dichlorobromomethane and Chloroform.

No additional comments.

Sample Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-75007-1	ASH-MW03-120611	Water	12/06/11 11:55	12/07/11 12:30
680-75007-2	ASH-MW11-120611	Water	12/06/11 13:08	12/07/11 12:30
680-75007-3	ASH-MW02-120611	Water	12/06/11 10:57	12/07/11 12:30
680-75007-4	ASH-MW10-120611	Water	12/06/11 11:52	12/07/11 12:30
680-75007-5	ASH-MW05-120611	Water	12/06/11 13:50	12/07/11 12:30
680-75007-6	ASH-RS1-120611	Water	12/06/11 14:21	12/07/11 12:30
680-75007-7	ASH-RS2-120611	Water	12/06/11 14:23	12/07/11 12:30
680-75007-8	ASH-EB1-120611	Water	12/06/11 14:25	12/07/11 12:30
680-75007-9	Trip Blank from lot 032150	Water	12/06/11 15:20	12/07/11 12:30

Method Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

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

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Qualifiers

GC/MS VOA

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

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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-MW03-120611 — Lab Sample ID: 680-75007-1

No Detections

Client Sample ID: ASH-MW11-120611 — Lab Sample ID: 680-75007-2

No Detections

Client Sample ID: ASH-MW02-120611 — Lab Sample ID: 680-75007-3

No Detections

Client Sample ID: ASH-MW10-120611 — Lab Sample ID: 680-75007-4

No Detections

Client Sample ID: ASH-MW05-120611 — Lab Sample ID: 680-75007-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14	J	25	5.0	ug/L	1		8260B	Total/NA
Chlorobenzene	0.90	J	1.0	0.25	ug/L	1		8260B	Total/NA

Client Sample ID: ASH-RS1-120611 — Lab Sample ID: 680-75007-6

No Detections

Client Sample ID: ASH-RS2-120611 — Lab Sample ID: 680-75007-7

No Detections

Client Sample ID: ASH-EB1-120611 — Lab Sample ID: 680-75007-8

No Detections

Client Sample ID: Trip Blank from lot 032150 — Lab Sample ID: 680-75007-9

No Detections

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-MW03-120611
Date Collected: 12/06/11 11:55
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/13/11 16:09	1
Acetonitrile	40	U	40	10	ug/L			12/13/11 16:09	1
Acrolein	20	U	20	7.4	ug/L			12/13/11 16:09	1
Acrylonitrile	20	U	20	7.2	ug/L			12/13/11 16:09	1
Benzene	1.0	U	1.0	0.25	ug/L			12/13/11 16:09	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/13/11 16:09	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/13/11 16:09	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/13/11 16:09	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/11 16:09	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/13/11 16:09	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/13/11 16:09	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/13/11 16:09	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/13/11 16:09	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/13/11 16:09	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/13/11 16:09	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/13/11 16:09	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/13/11 16:09	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/13/11 16:09	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/13/11 16:09	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/13/11 16:09	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/13/11 16:09	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/13/11 16:09	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 16:09	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/11 16:09	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/13/11 16:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 16:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/13/11 16:09	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/13/11 16:09	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/13/11 16:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/13/11 16:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/13/11 16:09	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/13/11 16:09	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/13/11 16:09	1
2-Hexanone	10	U	10	1.0	ug/L			12/13/11 16:09	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/13/11 16:09	1
Isobutyl alcohol	40	U	40	11	ug/L			12/13/11 16:09	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/13/11 16:09	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/13/11 16:09	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/13/11 16:09	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/13/11 16:09	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/13/11 16:09	1
Propionitrile	20	U	20	4.6	ug/L			12/13/11 16:09	1
Styrene	1.0	U	1.0	0.11	ug/L			12/13/11 16:09	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/13/11 16:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/13/11 16:09	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 16:09	1
Toluene	1.0	U	1.0	0.33	ug/L			12/13/11 16:09	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/13/11 16:09	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/13/11 16:09	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/13/11 16:09	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-MW03-120611
Date Collected: 12/06/11 11:55
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 16:09	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/13/11 16:09	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/13/11 16:09	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/13/11 16:09	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/13/11 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*70 - 130*		*12/13/11 16:09*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*12/13/11 16:09*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/13/11 16:09*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-MW11-120611
Date Collected: 12/06/11 13:08
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/13/11 16:38	1
Acetonitrile	40	U	40	10	ug/L			12/13/11 16:38	1
Acrolein	20	U	20	7.4	ug/L			12/13/11 16:38	1
Acrylonitrile	20	U	20	7.2	ug/L			12/13/11 16:38	1
Benzene	1.0	U	1.0	0.25	ug/L			12/13/11 16:38	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/13/11 16:38	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/13/11 16:38	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/13/11 16:38	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/11 16:38	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/13/11 16:38	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/13/11 16:38	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/13/11 16:38	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/13/11 16:38	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/13/11 16:38	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/13/11 16:38	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/13/11 16:38	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/13/11 16:38	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/13/11 16:38	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/13/11 16:38	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/13/11 16:38	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/13/11 16:38	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/13/11 16:38	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 16:38	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/11 16:38	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/13/11 16:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 16:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/13/11 16:38	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/13/11 16:38	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/13/11 16:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/13/11 16:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/13/11 16:38	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/13/11 16:38	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/13/11 16:38	1
2-Hexanone	10	U	10	1.0	ug/L			12/13/11 16:38	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/13/11 16:38	1
Isobutyl alcohol	40	U	40	11	ug/L			12/13/11 16:38	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/13/11 16:38	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/13/11 16:38	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/13/11 16:38	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/13/11 16:38	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/13/11 16:38	1
Propionitrile	20	U	20	4.6	ug/L			12/13/11 16:38	1
Styrene	1.0	U	1.0	0.11	ug/L			12/13/11 16:38	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/13/11 16:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/13/11 16:38	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 16:38	1
Toluene	1.0	U	1.0	0.33	ug/L			12/13/11 16:38	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/13/11 16:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/13/11 16:38	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/13/11 16:38	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-MW11-120611
Date Collected: 12/06/11 13:08
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 16:38	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/13/11 16:38	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/13/11 16:38	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/13/11 16:38	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/13/11 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*70 - 130*		*12/13/11 16:38*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*12/13/11 16:38*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*12/13/11 16:38*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-MW02-120611
Date Collected: 12/06/11 10:57
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/13/11 17:07	1
Acetonitrile	40	U	40	10	ug/L			12/13/11 17:07	1
Acrolein	20	U	20	7.4	ug/L			12/13/11 17:07	1
Acrylonitrile	20	U	20	7.2	ug/L			12/13/11 17:07	1
Benzene	1.0	U	1.0	0.25	ug/L			12/13/11 17:07	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/13/11 17:07	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/13/11 17:07	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/13/11 17:07	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/11 17:07	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/13/11 17:07	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/13/11 17:07	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/13/11 17:07	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/13/11 17:07	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/13/11 17:07	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/13/11 17:07	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/13/11 17:07	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/13/11 17:07	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/13/11 17:07	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/13/11 17:07	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/13/11 17:07	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/13/11 17:07	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/13/11 17:07	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 17:07	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/11 17:07	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/13/11 17:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 17:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/13/11 17:07	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/13/11 17:07	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/13/11 17:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/13/11 17:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/13/11 17:07	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/13/11 17:07	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/13/11 17:07	1
2-Hexanone	10	U	10	1.0	ug/L			12/13/11 17:07	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/13/11 17:07	1
Isobutyl alcohol	40	U	40	11	ug/L			12/13/11 17:07	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/13/11 17:07	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/13/11 17:07	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/13/11 17:07	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/13/11 17:07	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/13/11 17:07	1
Propionitrile	20	U	20	4.6	ug/L			12/13/11 17:07	1
Styrene	1.0	U	1.0	0.11	ug/L			12/13/11 17:07	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/13/11 17:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/13/11 17:07	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 17:07	1
Toluene	1.0	U	1.0	0.33	ug/L			12/13/11 17:07	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/13/11 17:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/13/11 17:07	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/13/11 17:07	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-MW02-120611
Date Collected: 12/06/11 10:57
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 17:07	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/13/11 17:07	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/13/11 17:07	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/13/11 17:07	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/13/11 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*70 - 130*		*12/13/11 17:07*	*1*
Dibromofluoromethane	*102*		*70 - 130*		*12/13/11 17:07*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/13/11 17:07*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-MW10-120611
Date Collected: 12/06/11 11:52
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/13/11 17:36	1
Acetonitrile	40	U	40	10	ug/L			12/13/11 17:36	1
Acrolein	20	U	20	7.4	ug/L			12/13/11 17:36	1
Acrylonitrile	20	U	20	7.2	ug/L			12/13/11 17:36	1
Benzene	1.0	U	1.0	0.25	ug/L			12/13/11 17:36	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/13/11 17:36	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/13/11 17:36	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/13/11 17:36	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/11 17:36	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/13/11 17:36	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/13/11 17:36	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/13/11 17:36	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/13/11 17:36	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/13/11 17:36	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/13/11 17:36	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/13/11 17:36	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/13/11 17:36	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/13/11 17:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/13/11 17:36	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/13/11 17:36	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/13/11 17:36	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/13/11 17:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 17:36	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/11 17:36	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/13/11 17:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 17:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/13/11 17:36	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/13/11 17:36	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/13/11 17:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/13/11 17:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/13/11 17:36	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/13/11 17:36	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/13/11 17:36	1
2-Hexanone	10	U	10	1.0	ug/L			12/13/11 17:36	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/13/11 17:36	1
Isobutyl alcohol	40	U	40	11	ug/L			12/13/11 17:36	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/13/11 17:36	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/13/11 17:36	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/13/11 17:36	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/13/11 17:36	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/13/11 17:36	1
Propionitrile	20	U	20	4.6	ug/L			12/13/11 17:36	1
Styrene	1.0	U	1.0	0.11	ug/L			12/13/11 17:36	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/13/11 17:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/13/11 17:36	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 17:36	1
Toluene	1.0	U	1.0	0.33	ug/L			12/13/11 17:36	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/13/11 17:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/13/11 17:36	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/13/11 17:36	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-MW10-120611
Date Collected: 12/06/11 11:52
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 17:36	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/13/11 17:36	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/13/11 17:36	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/13/11 17:36	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/13/11 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 130*		*12/13/11 17:36*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*12/13/11 17:36*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*12/13/11 17:36*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-MW05-120611
Date Collected: 12/06/11 13:50
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**14**	**J**	25	5.0	ug/L			12/13/11 18:05	1
Acetonitrile	40	U	40	10	ug/L			12/13/11 18:05	1
Acrolein	20	U	20	7.4	ug/L			12/13/11 18:05	1
Acrylonitrile	20	U	20	7.2	ug/L			12/13/11 18:05	1
Benzene	1.0	U	1.0	0.25	ug/L			12/13/11 18:05	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/13/11 18:05	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/13/11 18:05	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/13/11 18:05	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/11 18:05	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/13/11 18:05	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/13/11 18:05	1
Chlorobenzene	**0.90**	**J**	1.0	0.25	ug/L			12/13/11 18:05	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/13/11 18:05	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/13/11 18:05	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/13/11 18:05	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/13/11 18:05	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/13/11 18:05	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/13/11 18:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/13/11 18:05	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/13/11 18:05	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/13/11 18:05	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/13/11 18:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 18:05	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/11 18:05	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/13/11 18:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 18:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/13/11 18:05	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/13/11 18:05	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/13/11 18:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/13/11 18:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/13/11 18:05	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/13/11 18:05	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/13/11 18:05	1
2-Hexanone	10	U	10	1.0	ug/L			12/13/11 18:05	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/13/11 18:05	1
Isobutyl alcohol	40	U	40	11	ug/L			12/13/11 18:05	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/13/11 18:05	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/13/11 18:05	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/13/11 18:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/13/11 18:05	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/13/11 18:05	1
Propionitrile	20	U	20	4.6	ug/L			12/13/11 18:05	1
Styrene	1.0	U	1.0	0.11	ug/L			12/13/11 18:05	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/13/11 18:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/13/11 18:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 18:05	1
Toluene	1.0	U	1.0	0.33	ug/L			12/13/11 18:05	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/13/11 18:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/13/11 18:05	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/13/11 18:05	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-MW05-120611
Date Collected: 12/06/11 13:50
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 18:05	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/13/11 18:05	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/13/11 18:05	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/13/11 18:05	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/13/11 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*70 - 130*		*12/13/11 18:05*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*12/13/11 18:05*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*12/13/11 18:05*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-RS1-120611
Date Collected: 12/06/11 14:21
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/13/11 15:39	1
Acetonitrile	40	U	40	10	ug/L			12/13/11 15:39	1
Acrolein	20	U	20	7.4	ug/L			12/13/11 15:39	1
Acrylonitrile	20	U	20	7.2	ug/L			12/13/11 15:39	1
Benzene	1.0	U	1.0	0.25	ug/L			12/13/11 15:39	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/13/11 15:39	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/13/11 15:39	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/13/11 15:39	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/11 15:39	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/13/11 15:39	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/13/11 15:39	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/13/11 15:39	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/13/11 15:39	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/13/11 15:39	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/13/11 15:39	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/13/11 15:39	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/13/11 15:39	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/13/11 15:39	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/13/11 15:39	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/13/11 15:39	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/13/11 15:39	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/13/11 15:39	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 15:39	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/11 15:39	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/13/11 15:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 15:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/13/11 15:39	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/13/11 15:39	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/13/11 15:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/13/11 15:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/13/11 15:39	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/13/11 15:39	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/13/11 15:39	1
2-Hexanone	10	U	10	1.0	ug/L			12/13/11 15:39	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/13/11 15:39	1
Isobutyl alcohol	40	U	40	11	ug/L			12/13/11 15:39	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/13/11 15:39	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/13/11 15:39	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/13/11 15:39	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/13/11 15:39	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/13/11 15:39	1
Propionitrile	20	U	20	4.6	ug/L			12/13/11 15:39	1
Styrene	1.0	U	1.0	0.11	ug/L			12/13/11 15:39	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/13/11 15:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/13/11 15:39	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 15:39	1
Toluene	1.0	U	1.0	0.33	ug/L			12/13/11 15:39	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/13/11 15:39	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/13/11 15:39	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/13/11 15:39	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-RS1-120611
Date Collected: 12/06/11 14:21
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 15:39	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/13/11 15:39	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/13/11 15:39	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/13/11 15:39	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/13/11 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*70 - 130*		*12/13/11 15:39*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*12/13/11 15:39*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*12/13/11 15:39*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-RS2-120611
Date Collected: 12/06/11 14:23
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/13/11 15:10	1
Acetonitrile	40	U	40	10	ug/L			12/13/11 15:10	1
Acrolein	20	U	20	7.4	ug/L			12/13/11 15:10	1
Acrylonitrile	20	U	20	7.2	ug/L			12/13/11 15:10	1
Benzene	1.0	U	1.0	0.25	ug/L			12/13/11 15:10	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/13/11 15:10	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/13/11 15:10	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/13/11 15:10	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/11 15:10	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/13/11 15:10	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/13/11 15:10	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/13/11 15:10	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/13/11 15:10	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/13/11 15:10	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/13/11 15:10	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/13/11 15:10	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/13/11 15:10	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/13/11 15:10	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/13/11 15:10	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/13/11 15:10	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/13/11 15:10	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/13/11 15:10	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 15:10	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/11 15:10	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/13/11 15:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 15:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/13/11 15:10	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/13/11 15:10	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/13/11 15:10	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/13/11 15:10	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/13/11 15:10	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/13/11 15:10	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/13/11 15:10	1
2-Hexanone	10	U	10	1.0	ug/L			12/13/11 15:10	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/13/11 15:10	1
Isobutyl alcohol	40	U	40	11	ug/L			12/13/11 15:10	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/13/11 15:10	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/13/11 15:10	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/13/11 15:10	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/13/11 15:10	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/13/11 15:10	1
Propionitrile	20	U	20	4.6	ug/L			12/13/11 15:10	1
Styrene	1.0	U	1.0	0.11	ug/L			12/13/11 15:10	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/13/11 15:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/13/11 15:10	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 15:10	1
Toluene	1.0	U	1.0	0.33	ug/L			12/13/11 15:10	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/13/11 15:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/13/11 15:10	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/13/11 15:10	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-RS2-120611
Date Collected: 12/06/11 14:23
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 15:10	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/13/11 15:10	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/13/11 15:10	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/13/11 15:10	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/13/11 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*70 - 130*		*12/13/11 15:10*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*12/13/11 15:10*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/13/11 15:10*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-EB1-120611
Date Collected: 12/06/11 14:25
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/13/11 14:41	1
Acetonitrile	40	U	40	10	ug/L			12/13/11 14:41	1
Acrolein	20	U	20	7.4	ug/L			12/13/11 14:41	1
Acrylonitrile	20	U	20	7.2	ug/L			12/13/11 14:41	1
Benzene	1.0	U	1.0	0.25	ug/L			12/13/11 14:41	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/13/11 14:41	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/13/11 14:41	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/13/11 14:41	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/11 14:41	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/13/11 14:41	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/13/11 14:41	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/13/11 14:41	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/13/11 14:41	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/13/11 14:41	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/13/11 14:41	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/13/11 14:41	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/13/11 14:41	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/13/11 14:41	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/13/11 14:41	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/13/11 14:41	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/13/11 14:41	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/13/11 14:41	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 14:41	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/11 14:41	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/13/11 14:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 14:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/13/11 14:41	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/13/11 14:41	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/13/11 14:41	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/13/11 14:41	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/13/11 14:41	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/13/11 14:41	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/13/11 14:41	1
2-Hexanone	10	U	10	1.0	ug/L			12/13/11 14:41	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/13/11 14:41	1
Isobutyl alcohol	40	U	40	11	ug/L			12/13/11 14:41	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/13/11 14:41	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/13/11 14:41	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/13/11 14:41	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/13/11 14:41	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/13/11 14:41	1
Propionitrile	20	U	20	4.6	ug/L			12/13/11 14:41	1
Styrene	1.0	U	1.0	0.11	ug/L			12/13/11 14:41	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/13/11 14:41	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/13/11 14:41	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 14:41	1
Toluene	1.0	U	1.0	0.33	ug/L			12/13/11 14:41	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/13/11 14:41	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/13/11 14:41	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/13/11 14:41	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-EB1-120611
Date Collected: 12/06/11 14:25
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 14:41	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/13/11 14:41	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/13/11 14:41	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/13/11 14:41	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/13/11 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*70 - 130*		*12/13/11 14:41*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*12/13/11 14:41*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/13/11 14:41*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: Trip Blank from lot 032150
Date Collected: 12/06/11 15:20
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/13/11 14:12	1
Acetonitrile	40	U	40	10	ug/L			12/13/11 14:12	1
Acrolein	20	U	20	7.4	ug/L			12/13/11 14:12	1
Acrylonitrile	20	U	20	7.2	ug/L			12/13/11 14:12	1
Benzene	1.0	U	1.0	0.25	ug/L			12/13/11 14:12	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/13/11 14:12	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/13/11 14:12	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/13/11 14:12	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/11 14:12	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/13/11 14:12	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/13/11 14:12	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/13/11 14:12	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/13/11 14:12	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/13/11 14:12	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/13/11 14:12	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/13/11 14:12	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/13/11 14:12	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/13/11 14:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/13/11 14:12	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/13/11 14:12	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/13/11 14:12	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/13/11 14:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 14:12	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/11 14:12	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/13/11 14:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 14:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/13/11 14:12	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/13/11 14:12	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/13/11 14:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/13/11 14:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/13/11 14:12	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/13/11 14:12	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/13/11 14:12	1
2-Hexanone	10	U	10	1.0	ug/L			12/13/11 14:12	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/13/11 14:12	1
Isobutyl alcohol	40	U	40	11	ug/L			12/13/11 14:12	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/13/11 14:12	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/13/11 14:12	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/13/11 14:12	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/13/11 14:12	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/13/11 14:12	1
Propionitrile	20	U	20	4.6	ug/L			12/13/11 14:12	1
Styrene	1.0	U	1.0	0.11	ug/L			12/13/11 14:12	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/13/11 14:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/13/11 14:12	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 14:12	1
Toluene	1.0	U	1.0	0.33	ug/L			12/13/11 14:12	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/13/11 14:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/13/11 14:12	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/13/11 14:12	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: Trip Blank from lot 032150
Date Collected: 12/06/11 15:20
Date Received: 12/07/11 12:30

Lab Sample ID: 680-75007-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 14:12	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/13/11 14:12	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/13/11 14:12	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/13/11 14:12	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/13/11 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*70 - 130*		*12/13/11 14:12*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*12/13/11 14:12*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/13/11 14:12*	*1*

Surrogate Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-75007-1	ASH-MW03-120611	103	104	103
680-75007-2	ASH-MW11-120611	102	102	102
680-75007-3	ASH-MW02-120611	102	102	103
680-75007-4	ASH-MW10-120611	99	104	104
680-75007-5	ASH-MW05-120611	101	103	102
680-75007-6	ASH-RS1-120611	102	103	102
680-75007-7	ASH-RS2-120611	103	104	103
680-75007-8	ASH-EB1-120611	100	103	103
680-75007-9	Trip Blank from lot 032150	104	104	103
LCS 680-223411/1	Lab Control Sample	101	107	102
LCSD 680-223411/5	Lab Control Sample Dup	101	104	101
MB 680-223411/12	Method Blank	102	106	103

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-223411/12
Matrix: Water
Analysis Batch: 223411

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/13/11 12:45	1
Acetonitrile	40	U	40	10	ug/L			12/13/11 12:45	1
Acrolein	20	U	20	7.4	ug/L			12/13/11 12:45	1
Acrylonitrile	20	U	20	7.2	ug/L			12/13/11 12:45	1
Benzene	1.0	U	1.0	0.25	ug/L			12/13/11 12:45	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/13/11 12:45	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/13/11 12:45	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/13/11 12:45	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/11 12:45	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/13/11 12:45	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/13/11 12:45	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/13/11 12:45	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/13/11 12:45	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/13/11 12:45	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/13/11 12:45	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/13/11 12:45	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/13/11 12:45	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/13/11 12:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/13/11 12:45	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/13/11 12:45	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/13/11 12:45	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/13/11 12:45	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 12:45	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/11 12:45	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/13/11 12:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 12:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/13/11 12:45	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/13/11 12:45	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/13/11 12:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/13/11 12:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/13/11 12:45	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/13/11 12:45	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/13/11 12:45	1
2-Hexanone	10	U	10	1.0	ug/L			12/13/11 12:45	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/13/11 12:45	1
Isobutyl alcohol	40	U	40	11	ug/L			12/13/11 12:45	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/13/11 12:45	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/13/11 12:45	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/13/11 12:45	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/13/11 12:45	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/13/11 12:45	1
Propionitrile	20	U	20	4.6	ug/L			12/13/11 12:45	1
Styrene	1.0	U	1.0	0.11	ug/L			12/13/11 12:45	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/13/11 12:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/13/11 12:45	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 12:45	1
Toluene	1.0	U	1.0	0.33	ug/L			12/13/11 12:45	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/13/11 12:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/13/11 12:45	1

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

Lab Sample ID: MB 680-223411/12
Matrix: Water
Analysis Batch: 223411

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/13/11 12:45	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 12:45	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/13/11 12:45	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/13/11 12:45	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/13/11 12:45	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/13/11 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*70 - 130*		*12/13/11 12:45*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*12/13/11 12:45*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/13/11 12:45*	*1*

Lab Sample ID: LCS 680-223411/1
Matrix: Water
Analysis Batch: 223411

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	104		ug/L		104	26 - 180
Benzene	50.0	52.0		ug/L		104	70 - 130
Dichlorobromomethane	50.0	51.2		ug/L		102	70 - 130
Bromoform	50.0	46.1		ug/L		92	70 - 130
Bromomethane	50.0	64.1		ug/L		128	23 - 165
2-Butanone (MEK)	100	106		ug/L		106	49 - 172
Carbon disulfide	50.0	59.2		ug/L		118	54 - 132
Carbon tetrachloride	50.0	53.2		ug/L		106	70 - 130
Chlorobenzene	50.0	51.4		ug/L		103	70 - 130
Chloroethane	50.0	46.2		ug/L		92	56 - 152
Chloroform	50.0	53.3		ug/L		107	70 - 130
Chloromethane	50.0	60.2		ug/L		120	70 - 130
Chlorodibromomethane	50.0	52.6		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	52.2		ug/L		104	70 - 130
Ethylene Dibromide	50.0	51.2		ug/L		102	70 - 130
Dibromomethane	50.0	49.4		ug/L		99	70 - 130
Dichlorodifluoromethane	50.0	71.5		ug/L		143	44 - 146
1,1-Dichloroethane	50.0	54.2		ug/L		108	70 - 130
1,2-Dichloroethane	50.0	46.9		ug/L		94	70 - 130
cis-1,2-Dichloroethene	50.0	54.8		ug/L		110	70 - 130
trans-1,2-Dichloroethene	50.0	55.7		ug/L		111	70 - 130
1,1-Dichloroethene	50.0	58.8		ug/L		118	66 - 131
1,2-Dichloropropane	50.0	53.1		ug/L		106	70 - 130
cis-1,3-Dichloropropene	50.0	54.1		ug/L		108	70 - 130
trans-1,3-Dichloropropene	50.0	53.4		ug/L		107	70 - 130
Ethylbenzene	50.0	49.8		ug/L		100	70 - 130
2-Hexanone	100	101		ug/L		101	42 - 185
Methylene Chloride	50.0	56.9		ug/L		114	67 - 130
4-Methyl-2-pentanone (MIBK)	100	101		ug/L		101	70 - 130
Styrene	50.0	53.1		ug/L		106	70 - 130
1,1,1,2-Tetrachloroethane	50.0	52.0		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.7		ug/L		99	70 - 130

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

Lab Sample ID: LCS 680-223411/1
Matrix: Water
Analysis Batch: 223411

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Tetrachloroethene			50.0	53.8		ug/L		108	70 - 130		
Toluene			50.0	51.2		ug/L		102	70 - 130		
1,1,1-Trichloroethane			50.0	50.8		ug/L		102	70 - 130		
1,1,2-Trichloroethane			50.0	51.0		ug/L		102	70 - 130		
Trichloroethene			50.0	53.5		ug/L		107	70 - 130		
Trichlorofluoromethane			50.0	53.7		ug/L		107	55 - 156		
1,2,3-Trichloropropane			50.0	47.5		ug/L		95	70 - 130		
Vinyl acetate			100	115		ug/L		115	60 - 176		
Vinyl chloride			50.0	57.3		ug/L		115	67 - 134		
Xylenes, Total			150	154		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*70 - 130*
Dibromofluoromethane	*107*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-223411/5
Matrix: Water
Analysis Batch: 223411

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
Acetone			100	103		ug/L		103	26 - 180	1	50
Benzene			50.0	51.3		ug/L		103	70 - 130	1	30
Dichlorobromomethane			50.0	50.2		ug/L		100	70 - 130	2	30
Bromoform			50.0	45.2		ug/L		90	70 - 130	2	30
Bromomethane			50.0	72.5		ug/L		145	23 - 165	12	50
2-Butanone (MEK)			100	106		ug/L		106	49 - 172	0	30
Carbon disulfide			50.0	57.7		ug/L		115	54 - 132	3	30
Carbon tetrachloride			50.0	51.7		ug/L		103	70 - 130	3	30
Chlorobenzene			50.0	51.5		ug/L		103	70 - 130	0	30
Chloroethane			50.0	47.7		ug/L		95	56 - 152	3	40
Chloroform			50.0	52.1		ug/L		104	70 - 130	2	30
Chloromethane			50.0	55.8		ug/L		112	70 - 130	8	30
Chlorodibromomethane			50.0	52.0		ug/L		104	70 - 130	1	50
1,2-Dibromo-3-Chloropropane			50.0	53.6		ug/L		107	70 - 130	3	50
Ethylene Dibromide			50.0	50.9		ug/L		102	70 - 130	0	30
Dibromomethane			50.0	49.0		ug/L		98	70 - 130	1	30
Dichlorodifluoromethane			50.0	69.9		ug/L		140	44 - 146	2	50
1,1-Dichloroethane			50.0	52.6		ug/L		105	70 - 130	3	30
1,2-Dichloroethane			50.0	46.3		ug/L		93	70 - 130	1	30
cis-1,2-Dichloroethene			50.0	53.4		ug/L		107	70 - 130	3	30
trans-1,2-Dichloroethene			50.0	55.9		ug/L		112	70 - 130	0	30
1,1-Dichloroethene			50.0	59.4		ug/L		119	66 - 131	1	30
1,2-Dichloropropane			50.0	51.7		ug/L		103	70 - 130	3	30
cis-1,3-Dichloropropene			50.0	52.1		ug/L		104	70 - 130	4	30
trans-1,3-Dichloropropene			50.0	51.7		ug/L		103	70 - 130	3	50
Ethylbenzene			50.0	51.7		ug/L		103	70 - 130	4	30
2-Hexanone			100	104		ug/L		104	42 - 185	2	30
Methylene Chloride			50.0	55.7		ug/L		111	67 - 130	2	30

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

Lab Sample ID: LCSD 680-223411/5
Matrix: Water
Analysis Batch: 223411

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 (MIBK)			100	98.4		ug/L		98	70 - 130	3	30
Styrene			50.0	53.3		ug/L		107	70 - 130	0	30
1,1,1,2-Tetrachloroethane			50.0	51.4		ug/L		103	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	51.2		ug/L		102	70 - 130	3	30
Tetrachloroethene			50.0	53.5		ug/L		107	70 - 130	0	30
Toluene			50.0	50.7		ug/L		101	70 - 130	1	30
1,1,1-Trichloroethane			50.0	49.4		ug/L		99	70 - 130	3	30
1,1,2-Trichloroethane			50.0	50.5		ug/L		101	70 - 130	1	30
Trichloroethene			50.0	51.6		ug/L		103	70 - 130	4	30
Trichlorofluoromethane			50.0	52.4		ug/L		105	55 - 156	2	30
1,2,3-Trichloropropane			50.0	49.4		ug/L		99	70 - 130	4	30
Vinyl acetate			100	113		ug/L		113	60 - 176	1	30
Vinyl chloride			50.0	55.2		ug/L		110	67 - 134	4	30
Xylenes, Total			150	155		ug/L		103	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*70 - 130*
Dibromofluoromethane	*104*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

QC Association Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

GC/MS VOA

Analysis Batch: 223411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-75007-1	ASH-MW03-120611	Total/NA	Water	8260B	
680-75007-2	ASH-MW11-120611	Total/NA	Water	8260B	
680-75007-3	ASH-MW02-120611	Total/NA	Water	8260B	
680-75007-4	ASH-MW10-120611	Total/NA	Water	8260B	
680-75007-5	ASH-MW05-120611	Total/NA	Water	8260B	
680-75007-6	ASH-RS1-120611	Total/NA	Water	8260B	
680-75007-7	ASH-RS2-120611	Total/NA	Water	8260B	
680-75007-8	ASH-EB1-120611	Total/NA	Water	8260B	
680-75007-9	Trip Blank from lot 032150	Total/NA	Water	8260B	
LCS 680-223411/1	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-223411/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-223411/12	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-MW03-120611 — Lab Sample ID: 680-75007-1

Date Collected: 12/06/11 11:55 — **Matrix: Water**
Date Received: 12/07/11 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223411	12/13/11 16:09	AJMC	TAL SAV

Client Sample ID: ASH-MW11-120611 — Lab Sample ID: 680-75007-2

Date Collected: 12/06/11 13:08 — **Matrix: Water**
Date Received: 12/07/11 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223411	12/13/11 16:38	AJMC	TAL SAV

Client Sample ID: ASH-MW02-120611 — Lab Sample ID: 680-75007-3

Date Collected: 12/06/11 10:57 — **Matrix: Water**
Date Received: 12/07/11 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223411	12/13/11 17:07	AJMC	TAL SAV

Client Sample ID: ASH-MW10-120611 — Lab Sample ID: 680-75007-4

Date Collected: 12/06/11 11:52 — **Matrix: Water**
Date Received: 12/07/11 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223411	12/13/11 17:36	AJMC	TAL SAV

Client Sample ID: ASH-MW05-120611 — Lab Sample ID: 680-75007-5

Date Collected: 12/06/11 13:50 — **Matrix: Water**
Date Received: 12/07/11 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223411	12/13/11 18:05	AJMC	TAL SAV

Client Sample ID: ASH-RS1-120611 — Lab Sample ID: 680-75007-6

Date Collected: 12/06/11 14:21 — **Matrix: Water**
Date Received: 12/07/11 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223411	12/13/11 15:39	AJMC	TAL SAV

Client Sample ID: ASH-RS2-120611 — Lab Sample ID: 680-75007-7

Date Collected: 12/06/11 14:23 — **Matrix: Water**
Date Received: 12/07/11 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223411	12/13/11 15:10	AJMC	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Client Sample ID: ASH-EB1-120611

Lab Sample ID: 680-75007-8

Date Collected: 12/06/11 14:25

Matrix: Water

Date Received: 12/07/11 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223411	12/13/11 14:41	AJMC	TAL SAV

Client Sample ID: Trip Blank from lot 032150

Lab Sample ID: 680-75007-9

Date Collected: 12/06/11 15:20

Matrix: Water

Date Received: 12/07/11 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223411	12/13/11 14:12	AJMC	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

FedEx # 8769-3782-2299

Custody Seal # 970421
Bottle Order # 37625

Serial Number 48996

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	Ashland Semi Annual GW
PROJECT NO.	11168
PROJECT LOCATION (STATE)	MS
TAL (LAB) PROJECT MANAGER	Lidya Gulizia
P.O. NUMBER	4501789838
CONTRACT NO.	
CLIENT (SITE) PM	Tim Hassett
CLIENT PHONE	302-995-3456
CLIENT FAX	995-3485
CLIENT NAME	Ashland Chemical
CLIENT E-MAIL	tdhassett@ashland.com
CLIENT ADDRESS	500 Hercules Road
COMPANY CONTRACTING THIS WORK (if applicable)	

PAGE 1 OF 1

STANDARD REPORT DELIVERY (selected)
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE)
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

REQUIRED ANALYSIS: Appendix IX Volatiles (App 9 VOC) — CBS
PRESERVATIVE: UN

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
12-06-11	1155	ASH-MW03-120611	G	W				3	NOTE: QAPP RL's / Equis
12-06-11	1308	ASH-MW11-120611	G	W				3	EDD (Arcadis Format)
12-06-11	1057	ASH-MW02-120611	G	W				3	Required.
12-06-11	1152	ASH-MW10-120611	G	W				3	
12-06-11	1350	ASH-MW05-120611	G	W				3	
12-06-11	1421	ASH-RS1-120611	G	W				3	Equipment Rinsate
12-06-11	1423	ASH-RS2-120611	G	W				3	Equipment Rinsate
12-06-11	1425	ASH-EB1-120611	G	W				3	Equipment Blank
12-06-11	1520	Trip blank from lot 032150 w containers	G	W				2	Note: Made by ESI w/ T.A. supplied organic free water due to not enough trip blanks sent. They are sending more today

CBS

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	12-06-11	1550						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	12/7/11	1230	YES ○ NO ○		680-75007	4.4°C

TAL 8240-680 (1008)

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-75007-1

Login Number: 75007

List Source: TestAmerica Savannah

List Number: 1

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is 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	4.4 C
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?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	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	Insufficient volume received for MS/MSD.
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75007-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-75076-1
Client Project/Site: Hercules Hattiesburg - SA GW DEC 2011
Revision: 2

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Timothy Hassett

Authorized for release by:
1/10/2012 3:50:47 PM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

cc: Craig Derouen

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Job ID: 680-75076-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-75076-1 Revised (Rev 2)

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The matrix spike (MS) recoveries for batch 223702 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8260B: The matrix spike duplicate (MSD) recoveries for batch 223702 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8260B: The continuing calibration verification (CCV) for analytical batch 223702 exceeded average % Drift (%D) control criteria. These are in-house criteria established as limits for these compounds are not specified in the reference method. Additionally, %D for all analytes of concern were within established in-house limits with the exception of iodomethane. This compound has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed, and the data have been reported.

No other analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Comments
The sample results were revised at the client's request to report results at the method detection limit (MDL) for Dichlorobromomethane and Chloroform.

No additional comments.

Sample Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-75076-1	ASH-MW12-120711	Water	12/07/11 09:37	12/08/11 09:36
680-75076-2	ASH-MW04-120711	Water	12/07/11 10:12	12/08/11 09:36
680-75076-3	ASH-MW06-120711	Water	12/07/11 11:02	12/08/11 09:36
680-75076-4	ASH-MW08-120711	Water	12/07/11 12:25	12/08/11 09:36
680-75076-5	ASH-RS3-120711	Water	12/07/11 12:50	12/08/11 09:36
680-75076-6	ASH-EB2-120711	Water	12/07/11 12:08	12/08/11 09:36
680-75076-7	ASH-DUPA-120711	Water	12/07/11 00:00	12/08/11 09:36
680-75076-8	ASH-MW24-120711	Water	12/07/11 14:36	12/08/11 09:36
680-75076-9	ASH-MW16-120711	Water	12/07/11 15:45	12/08/11 09:36
680-75076-10	Trip Blank Lot # 110211	Water	12/07/11 00:00	12/08/11 09:36
680-75076-11	ASH-MW15-120711	Water	12/07/11 16:51	12/08/11 09:36

Method Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

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

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Qualifiers

GC/MS VOA

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

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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-MW12-120711 — Lab Sample ID: 680-75076-1

No Detections

Client Sample ID: ASH-MW04-120711 — Lab Sample ID: 680-75076-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.53	J	1.0	0.25	ug/L	1		8260B	Total/NA

Client Sample ID: ASH-MW06-120711 — Lab Sample ID: 680-75076-3

No Detections

Client Sample ID: ASH-MW08-120711 — Lab Sample ID: 680-75076-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5000		50	13	ug/L	50		8260B	Total/NA
Carbon tetrachloride	1100		50	25	ug/L	50		8260B	Total/NA
Chlorobenzene	160		50	13	ug/L	50		8260B	Total/NA
Chloroform	140		7.0	7.0	ug/L	50		8260B	Total/NA
Ethylbenzene	63		50	5.5	ug/L	50		8260B	Total/NA
Methylene Chloride	170	J	250	50	ug/L	50		8260B	Total/NA
Toluene	28	J	50	17	ug/L	50		8260B	Total/NA
Xylenes, Total	73	J	100	10	ug/L	50		8260B	Total/NA

Client Sample ID: ASH-RS3-120711 — Lab Sample ID: 680-75076-5

No Detections

Client Sample ID: ASH-EB2-120711 — Lab Sample ID: 680-75076-6

No Detections

Client Sample ID: ASH-DUPA-120711 — Lab Sample ID: 680-75076-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4900		50	13	ug/L	50		8260B	Total/NA
Carbon tetrachloride	1100		50	25	ug/L	50		8260B	Total/NA
Chlorobenzene	160		50	13	ug/L	50		8260B	Total/NA
Chloroform	140		7.0	7.0	ug/L	50		8260B	Total/NA
Ethylbenzene	58		50	5.5	ug/L	50		8260B	Total/NA
Methylene Chloride	160	J	250	50	ug/L	50		8260B	Total/NA
Toluene	26	J	50	17	ug/L	50		8260B	Total/NA
Xylenes, Total	73	J	100	10	ug/L	50		8260B	Total/NA

Client Sample ID: ASH-MW24-120711 — Lab Sample ID: 680-75076-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.39	J	1.0	0.25	ug/L	1		8260B	Total/NA

Client Sample ID: ASH-MW16-120711 — Lab Sample ID: 680-75076-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.2	J	25	5.0	ug/L	1		8260B	Total/NA

Detection Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: Trip Blank Lot # 110211 — Lab Sample ID: 680-75076-10

No Detections

Client Sample ID: ASH-MW15-120711 — Lab Sample ID: 680-75076-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	32		25	5.0	ug/L	1		8260B	Total/NA

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-MW12-120711
Date Collected: 12/07/11 09:37
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/14/11 04:34	1
Acetonitrile	40	U	40	10	ug/L			12/14/11 04:34	1
Acrolein	20	U	20	7.4	ug/L			12/14/11 04:34	1
Acrylonitrile	20	U	20	7.2	ug/L			12/14/11 04:34	1
Benzene	1.0	U	1.0	0.25	ug/L			12/14/11 04:34	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/14/11 04:34	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/14/11 04:34	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/14/11 04:34	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/14/11 04:34	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/14/11 04:34	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/14/11 04:34	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/14/11 04:34	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/14/11 04:34	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/14/11 04:34	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/14/11 04:34	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/14/11 04:34	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/14/11 04:34	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/14/11 04:34	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/14/11 04:34	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/14/11 04:34	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/14/11 04:34	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/14/11 04:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 04:34	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/14/11 04:34	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/14/11 04:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 04:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/14/11 04:34	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/14/11 04:34	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/14/11 04:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/14/11 04:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/14/11 04:34	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/14/11 04:34	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/14/11 04:34	1
2-Hexanone	10	U	10	1.0	ug/L			12/14/11 04:34	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/14/11 04:34	1
Isobutyl alcohol	40	U	40	11	ug/L			12/14/11 04:34	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/14/11 04:34	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/14/11 04:34	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/14/11 04:34	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/14/11 04:34	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/14/11 04:34	1
Propionitrile	20	U	20	4.6	ug/L			12/14/11 04:34	1
Styrene	1.0	U	1.0	0.11	ug/L			12/14/11 04:34	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/14/11 04:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/14/11 04:34	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 04:34	1
Toluene	1.0	U	1.0	0.33	ug/L			12/14/11 04:34	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/14/11 04:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/14/11 04:34	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/14/11 04:34	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-MW12-120711
Date Collected: 12/07/11 09:37
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 04:34	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/14/11 04:34	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/14/11 04:34	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/14/11 04:34	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/14/11 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*12/14/11 04:34*	*1*
Dibromofluoromethane	*87*		*70 - 130*		*12/14/11 04:34*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*12/14/11 04:34*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-MW04-120711
Date Collected: 12/07/11 10:12
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/14/11 02:30	1
Acetonitrile	40	U	40	10	ug/L			12/14/11 02:30	1
Acrolein	20	U	20	7.4	ug/L			12/14/11 02:30	1
Acrylonitrile	20	U	20	7.2	ug/L			12/14/11 02:30	1
Benzene	1.0	U	1.0	0.25	ug/L			12/14/11 02:30	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/14/11 02:30	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/14/11 02:30	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/14/11 02:30	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/14/11 02:30	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/14/11 02:30	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/14/11 02:30	1
Chlorobenzene	**0.53**	**J**	1.0	0.25	ug/L			12/14/11 02:30	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/14/11 02:30	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/14/11 02:30	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/14/11 02:30	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/14/11 02:30	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/14/11 02:30	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/14/11 02:30	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/14/11 02:30	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/14/11 02:30	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/14/11 02:30	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/14/11 02:30	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 02:30	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/14/11 02:30	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/14/11 02:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 02:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/14/11 02:30	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/14/11 02:30	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/14/11 02:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/14/11 02:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/14/11 02:30	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/14/11 02:30	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/14/11 02:30	1
2-Hexanone	10	U	10	1.0	ug/L			12/14/11 02:30	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/14/11 02:30	1
Isobutyl alcohol	40	U	40	11	ug/L			12/14/11 02:30	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/14/11 02:30	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/14/11 02:30	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/14/11 02:30	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/14/11 02:30	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/14/11 02:30	1
Propionitrile	20	U	20	4.6	ug/L			12/14/11 02:30	1
Styrene	1.0	U	1.0	0.11	ug/L			12/14/11 02:30	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/14/11 02:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/14/11 02:30	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 02:30	1
Toluene	1.0	U	1.0	0.33	ug/L			12/14/11 02:30	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/14/11 02:30	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/14/11 02:30	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/14/11 02:30	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-MW04-120711
Date Collected: 12/07/11 10:12
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 02:30	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/14/11 02:30	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/14/11 02:30	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/14/11 02:30	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/14/11 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*70 - 130*		*12/14/11 02:30*	*1*
Dibromofluoromethane	*90*		*70 - 130*		*12/14/11 02:30*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*12/14/11 02:30*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-MW06-120711
Date Collected: 12/07/11 11:02
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/14/11 02:50	1
Acetonitrile	40	U	40	10	ug/L			12/14/11 02:50	1
Acrolein	20	U	20	7.4	ug/L			12/14/11 02:50	1
Acrylonitrile	20	U	20	7.2	ug/L			12/14/11 02:50	1
Benzene	1.0	U	1.0	0.25	ug/L			12/14/11 02:50	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/14/11 02:50	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/14/11 02:50	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/14/11 02:50	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/14/11 02:50	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/14/11 02:50	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/14/11 02:50	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/14/11 02:50	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/14/11 02:50	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/14/11 02:50	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/14/11 02:50	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/14/11 02:50	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/14/11 02:50	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/14/11 02:50	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/14/11 02:50	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/14/11 02:50	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/14/11 02:50	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/14/11 02:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 02:50	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/14/11 02:50	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/14/11 02:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 02:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/14/11 02:50	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/14/11 02:50	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/14/11 02:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/14/11 02:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/14/11 02:50	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/14/11 02:50	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/14/11 02:50	1
2-Hexanone	10	U	10	1.0	ug/L			12/14/11 02:50	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/14/11 02:50	1
Isobutyl alcohol	40	U	40	11	ug/L			12/14/11 02:50	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/14/11 02:50	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/14/11 02:50	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/14/11 02:50	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/14/11 02:50	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/14/11 02:50	1
Propionitrile	20	U	20	4.6	ug/L			12/14/11 02:50	1
Styrene	1.0	U	1.0	0.11	ug/L			12/14/11 02:50	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/14/11 02:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/14/11 02:50	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 02:50	1
Toluene	1.0	U	1.0	0.33	ug/L			12/14/11 02:50	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/14/11 02:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/14/11 02:50	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/14/11 02:50	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-MW06-120711
Date Collected: 12/07/11 11:02
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 02:50	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/14/11 02:50	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/14/11 02:50	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/14/11 02:50	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/14/11 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*70 - 130*		*12/14/11 02:50*	*1*
Dibromofluoromethane	*90*		*70 - 130*		*12/14/11 02:50*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*12/14/11 02:50*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-MW08-120711
Date Collected: 12/07/11 12:25
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1300	U	1300	250	ug/L			12/14/11 01:27	50
Acetonitrile	2000	U	2000	500	ug/L			12/14/11 01:27	50
Acrolein	1000	U	1000	370	ug/L			12/14/11 01:27	50
Acrylonitrile	1000	U	1000	360	ug/L			12/14/11 01:27	50
Benzene	**5000**		50	13	ug/L			12/14/11 01:27	50
Dichlorobromomethane	13	U	13	13	ug/L			12/14/11 01:27	50
Bromoform	50	U	50	25	ug/L			12/14/11 01:27	50
Bromomethane	50	U	50	40	ug/L			12/14/11 01:27	50
2-Butanone (MEK)	500	U	500	50	ug/L			12/14/11 01:27	50
Carbon disulfide	100	U	100	30	ug/L			12/14/11 01:27	50
Carbon tetrachloride	**1100**		50	25	ug/L			12/14/11 01:27	50
Chlorobenzene	**160**		50	13	ug/L			12/14/11 01:27	50
2-Chloro-1,3-butadiene	50	U	50	15	ug/L			12/14/11 01:27	50
Chloroethane	50	U	50	50	ug/L			12/14/11 01:27	50
Chloroform	**140**		7.0	7.0	ug/L			12/14/11 01:27	50
Chloromethane	50	U	50	17	ug/L			12/14/11 01:27	50
3-Chloro-1-propene	50	U	50	10	ug/L			12/14/11 01:27	50
Chlorodibromomethane	50	U	50	5.0	ug/L			12/14/11 01:27	50
1,2-Dibromo-3-Chloropropane	50	U	50	22	ug/L			12/14/11 01:27	50
Ethylene Dibromide	50	U	50	13	ug/L			12/14/11 01:27	50
Dibromomethane	50	U	50	10	ug/L			12/14/11 01:27	50
trans-1,4-Dichloro-2-butene	100	U	100	25	ug/L			12/14/11 01:27	50
Dichlorodifluoromethane	50	U	50	13	ug/L			12/14/11 01:27	50
1,1-Dichloroethane	50	U	50	13	ug/L			12/14/11 01:27	50
1,2-Dichloroethane	50	U	50	5.0	ug/L			12/14/11 01:27	50
cis-1,2-Dichloroethene	50	U	50	7.5	ug/L			12/14/11 01:27	50
trans-1,2-Dichloroethene	50	U	50	10	ug/L			12/14/11 01:27	50
1,1-Dichloroethene	50	U	50	5.5	ug/L			12/14/11 01:27	50
1,2-Dichloropropane	50	U	50	6.5	ug/L			12/14/11 01:27	50
cis-1,3-Dichloropropene	50	U	50	5.5	ug/L			12/14/11 01:27	50
trans-1,3-Dichloropropene	50	U	50	11	ug/L			12/14/11 01:27	50
Ethylbenzene	**63**		50	5.5	ug/L			12/14/11 01:27	50
Ethyl methacrylate	50	U	50	13	ug/L			12/14/11 01:27	50
2-Hexanone	500	U	500	50	ug/L			12/14/11 01:27	50
Iodomethane	250	U	250	50	ug/L			12/14/11 01:27	50
Isobutyl alcohol	2000	U	2000	550	ug/L			12/14/11 01:27	50
Methacrylonitrile	1000	U	1000	170	ug/L			12/14/11 01:27	50
Methylene Chloride	**170**	**J**	250	50	ug/L			12/14/11 01:27	50
Methyl methacrylate	50	U	50	24	ug/L			12/14/11 01:27	50
4-Methyl-2-pentanone (MIBK)	500	U	500	50	ug/L			12/14/11 01:27	50
Pentachloroethane	250	U	250	60	ug/L			12/14/11 01:27	50
Propionitrile	1000	U	1000	230	ug/L			12/14/11 01:27	50
Styrene	50	U	50	5.5	ug/L			12/14/11 01:27	50
1,1,1,2-Tetrachloroethane	50	U	50	17	ug/L			12/14/11 01:27	50
1,1,2,2-Tetrachloroethane	50	U	50	9.0	ug/L			12/14/11 01:27	50
Tetrachloroethene	50	U	50	7.5	ug/L			12/14/11 01:27	50
Toluene	**28**	**J**	50	17	ug/L			12/14/11 01:27	50
1,1,1-Trichloroethane	50	U	50	25	ug/L			12/14/11 01:27	50
1,1,2-Trichloroethane	50	U	50	6.5	ug/L			12/14/11 01:27	50
Trichloroethene	50	U	50	6.5	ug/L			12/14/11 01:27	50

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-MW08-120711
Date Collected: 12/07/11 12:25
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	50	U	50	13	ug/L			12/14/11 01:27	50
1,2,3-Trichloropropane	50	U	50	21	ug/L			12/14/11 01:27	50
Vinyl acetate	100	U	100	14	ug/L			12/14/11 01:27	50
Vinyl chloride	50	U	50	9.0	ug/L			12/14/11 01:27	50
Xylenes, Total	**73**	**J**	100	10	ug/L			12/14/11 01:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 130*		*12/14/11 01:27*	*50*
Dibromofluoromethane	*86*		*70 - 130*		*12/14/11 01:27*	*50*
Toluene-d8 (Surr)	*108*		*70 - 130*		*12/14/11 01:27*	*50*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-RS3-120711
Date Collected: 12/07/11 12:50
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/14/11 03:32	1
Acetonitrile	40	U	40	10	ug/L			12/14/11 03:32	1
Acrolein	20	U	20	7.4	ug/L			12/14/11 03:32	1
Acrylonitrile	20	U	20	7.2	ug/L			12/14/11 03:32	1
Benzene	1.0	U	1.0	0.25	ug/L			12/14/11 03:32	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/14/11 03:32	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/14/11 03:32	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/14/11 03:32	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/14/11 03:32	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/14/11 03:32	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/14/11 03:32	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/14/11 03:32	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/14/11 03:32	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/14/11 03:32	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/14/11 03:32	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/14/11 03:32	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/14/11 03:32	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/14/11 03:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/14/11 03:32	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/14/11 03:32	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/14/11 03:32	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/14/11 03:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 03:32	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/14/11 03:32	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/14/11 03:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 03:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/14/11 03:32	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/14/11 03:32	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/14/11 03:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/14/11 03:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/14/11 03:32	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/14/11 03:32	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/14/11 03:32	1
2-Hexanone	10	U	10	1.0	ug/L			12/14/11 03:32	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/14/11 03:32	1
Isobutyl alcohol	40	U	40	11	ug/L			12/14/11 03:32	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/14/11 03:32	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/14/11 03:32	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/14/11 03:32	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/14/11 03:32	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/14/11 03:32	1
Propionitrile	20	U	20	4.6	ug/L			12/14/11 03:32	1
Styrene	1.0	U	1.0	0.11	ug/L			12/14/11 03:32	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/14/11 03:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/14/11 03:32	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 03:32	1
Toluene	1.0	U	1.0	0.33	ug/L			12/14/11 03:32	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/14/11 03:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/14/11 03:32	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/14/11 03:32	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-RS3-120711
Date Collected: 12/07/11 12:50
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 03:32	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/14/11 03:32	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/14/11 03:32	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/14/11 03:32	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/14/11 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*12/14/11 03:32*	*1*
Dibromofluoromethane	*90*		*70 - 130*		*12/14/11 03:32*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*12/14/11 03:32*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-EB2-120711
Date Collected: 12/07/11 12:08
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/14/11 03:11	1
Acetonitrile	40	U	40	10	ug/L			12/14/11 03:11	1
Acrolein	20	U	20	7.4	ug/L			12/14/11 03:11	1
Acrylonitrile	20	U	20	7.2	ug/L			12/14/11 03:11	1
Benzene	1.0	U	1.0	0.25	ug/L			12/14/11 03:11	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/14/11 03:11	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/14/11 03:11	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/14/11 03:11	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/14/11 03:11	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/14/11 03:11	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/14/11 03:11	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/14/11 03:11	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/14/11 03:11	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/14/11 03:11	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/14/11 03:11	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/14/11 03:11	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/14/11 03:11	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/14/11 03:11	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/14/11 03:11	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/14/11 03:11	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/14/11 03:11	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/14/11 03:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 03:11	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/14/11 03:11	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/14/11 03:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 03:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/14/11 03:11	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/14/11 03:11	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/14/11 03:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/14/11 03:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/14/11 03:11	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/14/11 03:11	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/14/11 03:11	1
2-Hexanone	10	U	10	1.0	ug/L			12/14/11 03:11	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/14/11 03:11	1
Isobutyl alcohol	40	U	40	11	ug/L			12/14/11 03:11	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/14/11 03:11	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/14/11 03:11	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/14/11 03:11	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/14/11 03:11	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/14/11 03:11	1
Propionitrile	20	U	20	4.6	ug/L			12/14/11 03:11	1
Styrene	1.0	U	1.0	0.11	ug/L			12/14/11 03:11	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/14/11 03:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/14/11 03:11	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 03:11	1
Toluene	1.0	U	1.0	0.33	ug/L			12/14/11 03:11	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/14/11 03:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/14/11 03:11	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/14/11 03:11	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-EB2-120711
Date Collected: 12/07/11 12:08
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 03:11	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/14/11 03:11	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/14/11 03:11	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/14/11 03:11	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/14/11 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*12/14/11 03:11*	*1*
Dibromofluoromethane	*88*		*70 - 130*		*12/14/11 03:11*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*12/14/11 03:11*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-DUPA-120711
Date Collected: 12/07/11 00:00
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1300	U	1300	250	ug/L			12/14/11 01:48	50
Acetonitrile	2000	U	2000	500	ug/L			12/14/11 01:48	50
Acrolein	1000	U	1000	370	ug/L			12/14/11 01:48	50
Acrylonitrile	1000	U	1000	360	ug/L			12/14/11 01:48	50
Benzene	**4900**		50	13	ug/L			12/14/11 01:48	50
Dichlorobromomethane	13	U	13	13	ug/L			12/14/11 01:48	50
Bromoform	50	U	50	25	ug/L			12/14/11 01:48	50
Bromomethane	50	U	50	40	ug/L			12/14/11 01:48	50
2-Butanone (MEK)	500	U	500	50	ug/L			12/14/11 01:48	50
Carbon disulfide	100	U	100	30	ug/L			12/14/11 01:48	50
Carbon tetrachloride	**1100**		50	25	ug/L			12/14/11 01:48	50
Chlorobenzene	**160**		50	13	ug/L			12/14/11 01:48	50
2-Chloro-1,3-butadiene	50	U	50	15	ug/L			12/14/11 01:48	50
Chloroethane	50	U	50	50	ug/L			12/14/11 01:48	50
Chloroform	**140**		7.0	7.0	ug/L			12/14/11 01:48	50
Chloromethane	50	U	50	17	ug/L			12/14/11 01:48	50
3-Chloro-1-propene	50	U	50	10	ug/L			12/14/11 01:48	50
Chlorodibromomethane	50	U	50	5.0	ug/L			12/14/11 01:48	50
1,2-Dibromo-3-Chloropropane	50	U	50	22	ug/L			12/14/11 01:48	50
Ethylene Dibromide	50	U	50	13	ug/L			12/14/11 01:48	50
Dibromomethane	50	U	50	10	ug/L			12/14/11 01:48	50
trans-1,4-Dichloro-2-butene	100	U	100	25	ug/L			12/14/11 01:48	50
Dichlorodifluoromethane	50	U	50	13	ug/L			12/14/11 01:48	50
1,1-Dichloroethane	50	U	50	13	ug/L			12/14/11 01:48	50
1,2-Dichloroethane	50	U	50	5.0	ug/L			12/14/11 01:48	50
cis-1,2-Dichloroethene	50	U	50	7.5	ug/L			12/14/11 01:48	50
trans-1,2-Dichloroethene	50	U	50	10	ug/L			12/14/11 01:48	50
1,1-Dichloroethene	50	U	50	5.5	ug/L			12/14/11 01:48	50
1,2-Dichloropropane	50	U	50	6.5	ug/L			12/14/11 01:48	50
cis-1,3-Dichloropropene	50	U	50	5.5	ug/L			12/14/11 01:48	50
trans-1,3-Dichloropropene	50	U	50	11	ug/L			12/14/11 01:48	50
Ethylbenzene	**58**		50	5.5	ug/L			12/14/11 01:48	50
Ethyl methacrylate	50	U	50	13	ug/L			12/14/11 01:48	50
2-Hexanone	500	U	500	50	ug/L			12/14/11 01:48	50
Iodomethane	250	U	250	50	ug/L			12/14/11 01:48	50
Isobutyl alcohol	2000	U	2000	550	ug/L			12/14/11 01:48	50
Methacrylonitrile	1000	U	1000	170	ug/L			12/14/11 01:48	50
Methylene Chloride	**160**	**J**	250	50	ug/L			12/14/11 01:48	50
Methyl methacrylate	50	U	50	24	ug/L			12/14/11 01:48	50
4-Methyl-2-pentanone (MIBK)	500	U	500	50	ug/L			12/14/11 01:48	50
Pentachloroethane	250	U	250	60	ug/L			12/14/11 01:48	50
Propionitrile	1000	U	1000	230	ug/L			12/14/11 01:48	50
Styrene	50	U	50	5.5	ug/L			12/14/11 01:48	50
1,1,1,2-Tetrachloroethane	50	U	50	17	ug/L			12/14/11 01:48	50
1,1,2,2-Tetrachloroethane	50	U	50	9.0	ug/L			12/14/11 01:48	50
Tetrachloroethene	50	U	50	7.5	ug/L			12/14/11 01:48	50
Toluene	**26**	**J**	50	17	ug/L			12/14/11 01:48	50
1,1,1-Trichloroethane	50	U	50	25	ug/L			12/14/11 01:48	50
1,1,2-Trichloroethane	50	U	50	6.5	ug/L			12/14/11 01:48	50
Trichloroethene	50	U	50	6.5	ug/L			12/14/11 01:48	50

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-DUPA-120711
Date Collected: 12/07/11 00:00
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	50	U	50	13	ug/L			12/14/11 01:48	50
1,2,3-Trichloropropane	50	U	50	21	ug/L			12/14/11 01:48	50
Vinyl acetate	100	U	100	14	ug/L			12/14/11 01:48	50
Vinyl chloride	50	U	50	9.0	ug/L			12/14/11 01:48	50
Xylenes, Total	**73**	**J**	100	10	ug/L			12/14/11 01:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*12/14/11 01:48*	*50*
Dibromofluoromethane	*85*		*70 - 130*		*12/14/11 01:48*	*50*
Toluene-d8 (Surr)	*108*		*70 - 130*		*12/14/11 01:48*	*50*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-MW24-120711
Date Collected: 12/07/11 14:36
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/14/11 00:25	1
Acetonitrile	40	U	40	10	ug/L			12/14/11 00:25	1
Acrolein	20	U	20	7.4	ug/L			12/14/11 00:25	1
Acrylonitrile	20	U	20	7.2	ug/L			12/14/11 00:25	1
Benzene	1.0	U	1.0	0.25	ug/L			12/14/11 00:25	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/14/11 00:25	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/14/11 00:25	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/14/11 00:25	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/14/11 00:25	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/14/11 00:25	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/14/11 00:25	1
Chlorobenzene	**0.39**	**J**	1.0	0.25	ug/L			12/14/11 00:25	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/14/11 00:25	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/14/11 00:25	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/14/11 00:25	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/14/11 00:25	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/14/11 00:25	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/14/11 00:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/14/11 00:25	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/14/11 00:25	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/14/11 00:25	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/14/11 00:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 00:25	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/14/11 00:25	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/14/11 00:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 00:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/14/11 00:25	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/14/11 00:25	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/14/11 00:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/14/11 00:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/14/11 00:25	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/14/11 00:25	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/14/11 00:25	1
2-Hexanone	10	U	10	1.0	ug/L			12/14/11 00:25	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/14/11 00:25	1
Isobutyl alcohol	40	U	40	11	ug/L			12/14/11 00:25	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/14/11 00:25	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/14/11 00:25	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/14/11 00:25	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/14/11 00:25	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/14/11 00:25	1
Propionitrile	20	U	20	4.6	ug/L			12/14/11 00:25	1
Styrene	1.0	U	1.0	0.11	ug/L			12/14/11 00:25	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/14/11 00:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/14/11 00:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 00:25	1
Toluene	1.0	U	1.0	0.33	ug/L			12/14/11 00:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/14/11 00:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/14/11 00:25	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/14/11 00:25	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-MW24-120711
Date Collected: 12/07/11 14:36
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 00:25	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/14/11 00:25	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/14/11 00:25	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/14/11 00:25	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/14/11 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*12/14/11 00:25*	*1*
Dibromofluoromethane	*91*		*70 - 130*		*12/14/11 00:25*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*12/14/11 00:25*	*1*

Client Sample ID: ASH-MW16-120711
Date Collected: 12/07/11 15:45
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	8.2	J	25	5.0	ug/L			12/14/11 00:46	1
Acetonitrile	40	U	40	10	ug/L			12/14/11 00:46	1
Acrolein	20	U	20	7.4	ug/L			12/14/11 00:46	1
Acrylonitrile	20	U	20	7.2	ug/L			12/14/11 00:46	1
Benzene	1.0	U	1.0	0.25	ug/L			12/14/11 00:46	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/14/11 00:46	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/14/11 00:46	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/14/11 00:46	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/14/11 00:46	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/14/11 00:46	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/14/11 00:46	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/14/11 00:46	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/14/11 00:46	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/14/11 00:46	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/14/11 00:46	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/14/11 00:46	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/14/11 00:46	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/14/11 00:46	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/14/11 00:46	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/14/11 00:46	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/14/11 00:46	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/14/11 00:46	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 00:46	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/14/11 00:46	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/14/11 00:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 00:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/14/11 00:46	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/14/11 00:46	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/14/11 00:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/14/11 00:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/14/11 00:46	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/14/11 00:46	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/14/11 00:46	1
2-Hexanone	10	U	10	1.0	ug/L			12/14/11 00:46	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/14/11 00:46	1
Isobutyl alcohol	40	U	40	11	ug/L			12/14/11 00:46	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/14/11 00:46	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/14/11 00:46	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/14/11 00:46	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/14/11 00:46	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/14/11 00:46	1
Propionitrile	20	U	20	4.6	ug/L			12/14/11 00:46	1
Styrene	1.0	U	1.0	0.11	ug/L			12/14/11 00:46	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/14/11 00:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/14/11 00:46	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 00:46	1
Toluene	1.0	U	1.0	0.33	ug/L			12/14/11 00:46	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/14/11 00:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/14/11 00:46	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/14/11 00:46	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-MW16-120711
Date Collected: 12/07/11 15:45
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 00:46	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/14/11 00:46	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/14/11 00:46	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/14/11 00:46	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/14/11 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*12/14/11 00:46*	*1*
Dibromofluoromethane	*90*		*70 - 130*		*12/14/11 00:46*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*12/14/11 00:46*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: Trip Blank Lot # 110211
Date Collected: 12/07/11 00:00
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/13/11 23:23	1
Acetonitrile	40	U	40	10	ug/L			12/13/11 23:23	1
Acrolein	20	U	20	7.4	ug/L			12/13/11 23:23	1
Acrylonitrile	20	U	20	7.2	ug/L			12/13/11 23:23	1
Benzene	1.0	U	1.0	0.25	ug/L			12/13/11 23:23	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/13/11 23:23	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/13/11 23:23	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/13/11 23:23	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/11 23:23	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/13/11 23:23	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/13/11 23:23	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/13/11 23:23	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/13/11 23:23	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/13/11 23:23	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/13/11 23:23	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/13/11 23:23	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/13/11 23:23	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/13/11 23:23	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/13/11 23:23	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/13/11 23:23	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/13/11 23:23	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/13/11 23:23	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 23:23	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/11 23:23	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/13/11 23:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 23:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/13/11 23:23	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/13/11 23:23	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/13/11 23:23	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/13/11 23:23	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/13/11 23:23	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/13/11 23:23	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/13/11 23:23	1
2-Hexanone	10	U	10	1.0	ug/L			12/13/11 23:23	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/13/11 23:23	1
Isobutyl alcohol	40	U	40	11	ug/L			12/13/11 23:23	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/13/11 23:23	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/13/11 23:23	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/13/11 23:23	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/13/11 23:23	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/13/11 23:23	1
Propionitrile	20	U	20	4.6	ug/L			12/13/11 23:23	1
Styrene	1.0	U	1.0	0.11	ug/L			12/13/11 23:23	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/13/11 23:23	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/13/11 23:23	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 23:23	1
Toluene	1.0	U	1.0	0.33	ug/L			12/13/11 23:23	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/13/11 23:23	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/13/11 23:23	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/13/11 23:23	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: Trip Blank Lot # 110211
Date Collected: 12/07/11 00:00
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 23:23	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/13/11 23:23	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/13/11 23:23	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/13/11 23:23	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/13/11 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*12/13/11 23:23*	*1*
Dibromofluoromethane	*90*		*70 - 130*		*12/13/11 23:23*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*12/13/11 23:23*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-MW15-120711
Date Collected: 12/07/11 16:51
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	32		25	5.0	ug/L			12/14/11 01:07	1
Acetonitrile	40	U	40	10	ug/L			12/14/11 01:07	1
Acrolein	20	U	20	7.4	ug/L			12/14/11 01:07	1
Acrylonitrile	20	U	20	7.2	ug/L			12/14/11 01:07	1
Benzene	1.0	U	1.0	0.25	ug/L			12/14/11 01:07	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/14/11 01:07	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/14/11 01:07	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/14/11 01:07	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/14/11 01:07	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/14/11 01:07	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/14/11 01:07	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/14/11 01:07	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/14/11 01:07	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/14/11 01:07	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/14/11 01:07	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/14/11 01:07	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/14/11 01:07	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/14/11 01:07	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/14/11 01:07	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/14/11 01:07	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/14/11 01:07	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/14/11 01:07	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 01:07	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/14/11 01:07	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/14/11 01:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 01:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/14/11 01:07	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/14/11 01:07	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/14/11 01:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/14/11 01:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/14/11 01:07	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/14/11 01:07	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/14/11 01:07	1
2-Hexanone	10	U	10	1.0	ug/L			12/14/11 01:07	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/14/11 01:07	1
Isobutyl alcohol	40	U	40	11	ug/L			12/14/11 01:07	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/14/11 01:07	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/14/11 01:07	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/14/11 01:07	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/14/11 01:07	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/14/11 01:07	1
Propionitrile	20	U	20	4.6	ug/L			12/14/11 01:07	1
Styrene	1.0	U	1.0	0.11	ug/L			12/14/11 01:07	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/14/11 01:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/14/11 01:07	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 01:07	1
Toluene	1.0	U	1.0	0.33	ug/L			12/14/11 01:07	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/14/11 01:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/14/11 01:07	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/14/11 01:07	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-MW15-120711
Date Collected: 12/07/11 16:51
Date Received: 12/08/11 09:36

Lab Sample ID: 680-75076-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 01:07	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/14/11 01:07	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/14/11 01:07	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/14/11 01:07	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/14/11 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*12/14/11 01:07*	*1*
Dibromofluoromethane	*88*		*70 - 130*		*12/14/11 01:07*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*12/14/11 01:07*	*1*

Surrogate Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-75076-1	ASH-MW12-120711	95	87	110
680-75076-2	ASH-MW04-120711	102	90	108
680-75076-3	ASH-MW06-120711	94	90	109
680-75076-4	ASH-MW08-120711	99	86	108
680-75076-4 MS	ASH-MW08-120711	101	108	100
680-75076-4 MSD	ASH-MW08-120711	102	106	100
680-75076-5	ASH-RS3-120711	97	90	111
680-75076-6	ASH-EB2-120711	98	88	111
680-75076-7	ASH-DUPA-120711	98	85	108
680-75076-8	ASH-MW24-120711	95	91	111
680-75076-9	ASH-MW16-120711	97	90	111
680-75076-10	Trip Blank Lot # 110211	96	90	109
680-75076-11	ASH-MW15-120711	98	88	111
LCS 680-223550/4	Lab Control Sample	108	98	105
LCS 680-223702/4	Lab Control Sample	103	109	102
LCSD 680-223550/5	Lab Control Sample Dup	107	97	105
LCSD 680-223702/5	Lab Control Sample Dup	93	95	95
MB 680-223550/7	Method Blank	98	90	110
MB 680-223702/7	Method Blank	103	105	102

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-223550/7
Matrix: Water
Analysis Batch: 223550

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/13/11 22:41	1
Acetonitrile	40	U	40	10	ug/L			12/13/11 22:41	1
Acrolein	20	U	20	7.4	ug/L			12/13/11 22:41	1
Acrylonitrile	20	U	20	7.2	ug/L			12/13/11 22:41	1
Benzene	1.0	U	1.0	0.25	ug/L			12/13/11 22:41	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/13/11 22:41	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/13/11 22:41	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/13/11 22:41	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/11 22:41	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/13/11 22:41	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/13/11 22:41	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/13/11 22:41	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/13/11 22:41	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/13/11 22:41	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/13/11 22:41	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/13/11 22:41	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/13/11 22:41	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/13/11 22:41	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/13/11 22:41	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/13/11 22:41	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/13/11 22:41	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/13/11 22:41	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 22:41	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/11 22:41	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/13/11 22:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 22:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/13/11 22:41	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/13/11 22:41	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/13/11 22:41	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/13/11 22:41	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/13/11 22:41	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/13/11 22:41	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/13/11 22:41	1
2-Hexanone	10	U	10	1.0	ug/L			12/13/11 22:41	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/13/11 22:41	1
Isobutyl alcohol	40	U	40	11	ug/L			12/13/11 22:41	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/13/11 22:41	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/13/11 22:41	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/13/11 22:41	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/13/11 22:41	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/13/11 22:41	1
Propionitrile	20	U	20	4.6	ug/L			12/13/11 22:41	1
Styrene	1.0	U	1.0	0.11	ug/L			12/13/11 22:41	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/13/11 22:41	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/13/11 22:41	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/13/11 22:41	1
Toluene	1.0	U	1.0	0.33	ug/L			12/13/11 22:41	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/13/11 22:41	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/13/11 22:41	1

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

Lab Sample ID: MB 680-223550/7
Matrix: Water
Analysis Batch: 223550

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/13/11 22:41	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/13/11 22:41	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/13/11 22:41	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/13/11 22:41	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/13/11 22:41	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/13/11 22:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*70 - 130*		*12/13/11 22:41*	*1*
Dibromofluoromethane	*90*		*70 - 130*		*12/13/11 22:41*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*12/13/11 22:41*	*1*

Lab Sample ID: LCS 680-223550/4
Matrix: Water
Analysis Batch: 223550

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	83.3		ug/L		83	26 - 180
Benzene	50.0	51.4		ug/L		103	70 - 130
Dichlorobromomethane	50.0	55.0		ug/L		110	70 - 130
Bromoform	50.0	44.1		ug/L		88	70 - 130
Bromomethane	50.0	63.1		ug/L		126	23 - 165
2-Butanone (MEK)	100	91.7		ug/L		92	49 - 172
Carbon disulfide	50.0	48.1		ug/L		96	54 - 132
Carbon tetrachloride	50.0	52.1		ug/L		104	70 - 130
Chlorobenzene	50.0	51.2		ug/L		102	70 - 130
Chloroethane	50.0	58.5		ug/L		117	56 - 152
Chloroform	50.0	50.6		ug/L		101	70 - 130
Chloromethane	50.0	41.8		ug/L		84	70 - 130
Chlorodibromomethane	50.0	53.3		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	41.9		ug/L		84	70 - 130
Ethylene Dibromide	50.0	50.5		ug/L		101	70 - 130
Dibromomethane	50.0	51.5		ug/L		103	70 - 130
Dichlorodifluoromethane	50.0	40.5		ug/L		81	44 - 146
1,1-Dichloroethane	50.0	50.1		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	54.4		ug/L		109	70 - 130
cis-1,2-Dichloroethene	50.0	47.4		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	45.9		ug/L		92	70 - 130
1,1-Dichloroethene	50.0	45.1		ug/L		90	66 - 131
1,2-Dichloropropane	50.0	52.8		ug/L		106	70 - 130
cis-1,3-Dichloropropene	50.0	55.0		ug/L		110	70 - 130
trans-1,3-Dichloropropene	50.0	55.7		ug/L		111	70 - 130
Ethylbenzene	50.0	53.2		ug/L		106	70 - 130
2-Hexanone	100	103		ug/L		103	42 - 185
Methylene Chloride	50.0	46.3		ug/L		93	67 - 130
4-Methyl-2-pentanone (MIBK)	100	111		ug/L		111	70 - 130
Styrene	50.0	54.4		ug/L		109	70 - 130
1,1,1,2-Tetrachloroethane	50.0	55.0		ug/L		110	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.8		ug/L		102	70 - 130

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

Lab Sample ID: LCS 680-223550/4
Matrix: Water
Analysis Batch: 223550

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Tetrachloroethene			50.0	47.1		ug/L		94	70 - 130		
Toluene			50.0	53.6		ug/L		107	70 - 130		
1,1,1-Trichloroethane			50.0	54.1		ug/L		108	70 - 130		
1,1,2-Trichloroethane			50.0	52.6		ug/L		105	70 - 130		
Trichloroethene			50.0	48.4		ug/L		97	70 - 130		
Trichlorofluoromethane			50.0	49.2		ug/L		98	55 - 156		
1,2,3-Trichloropropane			50.0	48.0		ug/L		96	70 - 130		
Vinyl acetate			100	105		ug/L		105	60 - 176		
Vinyl chloride			50.0	48.9		ug/L		98	67 - 134		
Xylenes, Total			150	158		ug/L		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*70 - 130*
Dibromofluoromethane	*98*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 680-223550/5
Matrix: Water
Analysis Batch: 223550

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
Acetone			100	85.6		ug/L		86	26 - 180	3	50
Benzene			50.0	51.4		ug/L		103	70 - 130	0	30
Dichlorobromomethane			50.0	55.9		ug/L		112	70 - 130	1	30
Bromoform			50.0	44.1		ug/L		88	70 - 130	0	30
Bromomethane			50.0	69.4		ug/L		139	23 - 165	10	50
2-Butanone (MEK)			100	93.6		ug/L		94	49 - 172	2	30
Carbon disulfide			50.0	47.0		ug/L		94	54 - 132	2	30
Carbon tetrachloride			50.0	51.9		ug/L		104	70 - 130	0	30
Chlorobenzene			50.0	50.3		ug/L		101	70 - 130	2	30
Chloroethane			50.0	57.5		ug/L		115	56 - 152	2	40
Chloroform			50.0	50.1		ug/L		100	70 - 130	1	30
Chloromethane			50.0	40.4		ug/L		81	70 - 130	4	30
Chlorodibromomethane			50.0	53.0		ug/L		106	70 - 130	1	50
1,2-Dibromo-3-Chloropropane			50.0	41.3		ug/L		83	70 - 130	1	50
Ethylene Dibromide			50.0	51.8		ug/L		104	70 - 130	3	30
Dibromomethane			50.0	51.5		ug/L		103	70 - 130	0	30
Dichlorodifluoromethane			50.0	38.9		ug/L		78	44 - 146	4	50
1,1-Dichloroethane			50.0	49.4		ug/L		99	70 - 130	1	30
1,2-Dichloroethane			50.0	53.8		ug/L		108	70 - 130	1	30
cis-1,2-Dichloroethene			50.0	47.1		ug/L		94	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	44.7		ug/L		89	70 - 130	3	30
1,1-Dichloroethene			50.0	44.2		ug/L		88	66 - 131	2	30
1,2-Dichloropropane			50.0	53.6		ug/L		107	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	55.7		ug/L		111	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	56.9		ug/L		114	70 - 130	2	50
Ethylbenzene			50.0	51.6		ug/L		103	70 - 130	3	30
2-Hexanone			100	103		ug/L		103	42 - 185	0	30
Methylene Chloride			50.0	45.8		ug/L		92	67 - 130	1	30

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

Lab Sample ID: LCSD 680-223550/5
Matrix: Water
Analysis Batch: 223550

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 (MIBK)			100	113		ug/L		113	70 - 130	2	30
Styrene			50.0	52.0		ug/L		104	70 - 130	5	30
1,1,1,2-Tetrachloroethane			50.0	53.7		ug/L		107	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	50.7		ug/L		101	70 - 130	0	30
Tetrachloroethene			50.0	44.9		ug/L		90	70 - 130	5	30
Toluene			50.0	53.1		ug/L		106	70 - 130	1	30
1,1,1-Trichloroethane			50.0	52.8		ug/L		106	70 - 130	3	30
1,1,2-Trichloroethane			50.0	52.6		ug/L		105	70 - 130	0	30
Trichloroethene			50.0	49.1		ug/L		98	70 - 130	2	30
Trichlorofluoromethane			50.0	47.5		ug/L		95	55 - 156	3	30
1,2,3-Trichloropropane			50.0	48.8		ug/L		98	70 - 130	2	30
Vinyl acetate			100	100		ug/L		100	60 - 176	4	30
Vinyl chloride			50.0	47.4		ug/L		95	67 - 134	3	30
Xylenes, Total			150	153		ug/L		102	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*70 - 130*
Dibromofluoromethane	*97*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 680-223702/7
Matrix: Water
Analysis Batch: 223702

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/14/11 13:35	1
Acetonitrile	40	U	40	10	ug/L			12/14/11 13:35	1
Acrolein	20	U	20	7.4	ug/L			12/14/11 13:35	1
Acrylonitrile	20	U	20	7.2	ug/L			12/14/11 13:35	1
Benzene	1.0	U	1.0	0.25	ug/L			12/14/11 13:35	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/14/11 13:35	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/14/11 13:35	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/14/11 13:35	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/14/11 13:35	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/14/11 13:35	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/14/11 13:35	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/14/11 13:35	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/14/11 13:35	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/14/11 13:35	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/14/11 13:35	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/14/11 13:35	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/14/11 13:35	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/14/11 13:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/14/11 13:35	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/14/11 13:35	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/14/11 13:35	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/14/11 13:35	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 13:35	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/14/11 13:35	1

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

Lab Sample ID: MB 680-223702/7
Matrix: Water
Analysis Batch: 223702

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/14/11 13:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 13:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/14/11 13:35	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/14/11 13:35	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/14/11 13:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/14/11 13:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/14/11 13:35	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/14/11 13:35	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/14/11 13:35	1
2-Hexanone	10	U	10	1.0	ug/L			12/14/11 13:35	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/14/11 13:35	1
Isobutyl alcohol	40	U	40	11	ug/L			12/14/11 13:35	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/14/11 13:35	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/14/11 13:35	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/14/11 13:35	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/14/11 13:35	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/14/11 13:35	1
Propionitrile	20	U	20	4.6	ug/L			12/14/11 13:35	1
Styrene	1.0	U	1.0	0.11	ug/L			12/14/11 13:35	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/14/11 13:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/14/11 13:35	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 13:35	1
Toluene	1.0	U	1.0	0.33	ug/L			12/14/11 13:35	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/14/11 13:35	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/14/11 13:35	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/14/11 13:35	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 13:35	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/14/11 13:35	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/14/11 13:35	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/14/11 13:35	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/14/11 13:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*70 - 130*		*12/14/11 13:35*	*1*
Dibromofluoromethane	*105*		*70 - 130*		*12/14/11 13:35*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*12/14/11 13:35*	*1*

Lab Sample ID: LCS 680-223702/4
Matrix: Water
Analysis Batch: 223702

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	118		ug/L		118	26 - 180
Benzene	50.0	52.7		ug/L		105	70 - 130
Dichlorobromomethane	50.0	54.3		ug/L		109	70 - 130
Bromoform	50.0	50.2		ug/L		100	70 - 130
Bromomethane	50.0	50.7		ug/L		101	23 - 165
2-Butanone (MEK)	100	114		ug/L		114	49 - 172
Carbon disulfide	50.0	59.1		ug/L		118	54 - 132

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

Lab Sample ID: LCS 680-223702/4
Matrix: Water
Analysis Batch: 223702

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	52.8		ug/L		106	70 - 130		
Chlorobenzene			50.0	52.5		ug/L		105	70 - 130		
Chloroethane			50.0	39.5		ug/L		79	56 - 152		
Chloroform			50.0	54.4		ug/L		109	70 - 130		
Chloromethane			50.0	56.8		ug/L		114	70 - 130		
Chlorodibromomethane			50.0	57.1		ug/L		114	70 - 130		
1,2-Dibromo-3-Chloropropane			50.0	59.6		ug/L		119	70 - 130		
Ethylene Dibromide			50.0	55.5		ug/L		111	70 - 130		
Dibromomethane			50.0	54.1		ug/L		108	70 - 130		
Dichlorodifluoromethane			50.0	67.0		ug/L		134	44 - 146		
1,1-Dichloroethane			50.0	53.8		ug/L		108	70 - 130		
1,2-Dichloroethane			50.0	49.5		ug/L		99	70 - 130		
cis-1,2-Dichloroethene			50.0	55.9		ug/L		112	70 - 130		
trans-1,2-Dichloroethene			50.0	55.5		ug/L		111	70 - 130		
1,1-Dichloroethene			50.0	56.9		ug/L		114	66 - 131		
1,2-Dichloropropane			50.0	54.9		ug/L		110	70 - 130		
cis-1,3-Dichloropropene			50.0	56.4		ug/L		113	70 - 130		
trans-1,3-Dichloropropene			50.0	56.8		ug/L		114	70 - 130		
Ethylbenzene			50.0	50.5		ug/L		101	70 - 130		
2-Hexanone			100	112		ug/L		112	42 - 185		
Methylene Chloride			50.0	58.0		ug/L		116	67 - 130		
4-Methyl-2-pentanone (MIBK)			100	110		ug/L		110	70 - 130		
Styrene			50.0	54.0		ug/L		108	70 - 130		
1,1,1,2-Tetrachloroethane			50.0	54.1		ug/L		108	70 - 130		
1,1,2,2-Tetrachloroethane			50.0	54.0		ug/L		108	70 - 130		
Tetrachloroethene			50.0	54.1		ug/L		108	70 - 130		
Toluene			50.0	51.7		ug/L		103	70 - 130		
1,1,1-Trichloroethane			50.0	51.1		ug/L		102	70 - 130		
1,1,2-Trichloroethane			50.0	55.6		ug/L		111	70 - 130		
Trichloroethene			50.0	53.9		ug/L		108	70 - 130		
Trichlorofluoromethane			50.0	49.9		ug/L		100	55 - 156		
1,2,3-Trichloropropane			50.0	52.9		ug/L		106	70 - 130		
Vinyl acetate			100	120		ug/L		120	60 - 176		
Vinyl chloride			50.0	52.3		ug/L		105	67 - 134		
Xylenes, Total			150	156		ug/L		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*70 - 130*
Dibromofluoromethane	*109*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-223702/5
Matrix: Water
Analysis Batch: 223702

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
Acetone			100	90.3		ug/L		90	26 - 180	27	50
Benzene			50.0	48.1		ug/L		96	70 - 130	9	30
Dichlorobromomethane			50.0	45.7		ug/L		91	70 - 130	17	30

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

Lab Sample ID: LCSD 680-223702/5
Matrix: Water
Analysis Batch: 223702

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
Bromoform	50.0	38.3		ug/L		77	70 - 130	27	30
Bromomethane	50.0	65.2		ug/L		130	23 - 165	25	50
2-Butanone (MEK)	100	96.0		ug/L		96	49 - 172	17	30
Carbon disulfide	50.0	50.7		ug/L		101	54 - 132	15	30
Carbon tetrachloride	50.0	45.8		ug/L		92	70 - 130	14	30
Chlorobenzene	50.0	47.5		ug/L		95	70 - 130	10	30
Chloroethane	50.0	44.3		ug/L		89	56 - 152	11	40
Chloroform	50.0	47.6		ug/L		95	70 - 130	13	30
Chloromethane	50.0	48.9		ug/L		98	70 - 130	15	30
Chlorodibromomethane	50.0	46.2		ug/L		92	70 - 130	21	50
1,2-Dibromo-3-Chloropropane	50.0	46.3		ug/L		93	70 - 130	25	50
Ethylene Dibromide	50.0	47.0		ug/L		94	70 - 130	17	30
Dibromomethane	50.0	45.8		ug/L		92	70 - 130	17	30
Dichlorodifluoromethane	50.0	59.1		ug/L		118	44 - 146	13	50
1,1-Dichloroethane	50.0	48.2		ug/L		96	70 - 130	11	30
1,2-Dichloroethane	50.0	43.8		ug/L		88	70 - 130	12	30
cis-1,2-Dichloroethene	50.0	49.4		ug/L		99	70 - 130	12	30
trans-1,2-Dichloroethene	50.0	48.6		ug/L		97	70 - 130	13	30
1,1-Dichloroethene	50.0	49.8		ug/L		100	66 - 131	13	30
1,2-Dichloropropane	50.0	48.9		ug/L		98	70 - 130	12	30
cis-1,3-Dichloropropene	50.0	48.0		ug/L		96	70 - 130	16	30
trans-1,3-Dichloropropene	50.0	47.4		ug/L		95	70 - 130	18	50
Ethylbenzene	50.0	47.3		ug/L		95	70 - 130	6	30
2-Hexanone	100	95.5		ug/L		96	42 - 185	15	30
Methylene Chloride	50.0	51.9		ug/L		104	67 - 130	11	30
4-Methyl-2-pentanone (MIBK)	100	95.0		ug/L		95	70 - 130	15	30
Styrene	50.0	49.0		ug/L		98	70 - 130	10	30
1,1,1,2-Tetrachloroethane	50.0	47.0		ug/L		94	70 - 130	14	30
1,1,2,2-Tetrachloroethane	50.0	46.0		ug/L		92	70 - 130	16	30
Tetrachloroethene	50.0	47.8		ug/L		96	70 - 130	12	30
Toluene	50.0	47.3		ug/L		95	70 - 130	9	30
1,1,1-Trichloroethane	50.0	43.9		ug/L		88	70 - 130	15	30
1,1,2-Trichloroethane	50.0	47.8		ug/L		96	70 - 130	15	30
Trichloroethene	50.0	46.8		ug/L		94	70 - 130	14	30
Trichlorofluoromethane	50.0	46.3		ug/L		93	55 - 156	7	30
1,2,3-Trichloropropane	50.0	45.9		ug/L		92	70 - 130	14	30
Vinyl acetate	100	107		ug/L		107	60 - 176	11	30
Vinyl chloride	50.0	47.0		ug/L		94	67 - 134	11	30
Xylenes, Total	150	143		ug/L		95	70 - 130	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*70 - 130*
Dibromofluoromethane	*95*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

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

Lab Sample ID: 680-75076-4 MS
Matrix: Water
Analysis Batch: 223702

Client Sample ID: ASH-MW08-120711
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	1300	U	5000	4940		ug/L		99	26 - 180
Benzene	5000		2500	6420	F	ug/L		56	70 - 130
Dichlorobromomethane	13	U	2500	2450		ug/L		98	70 - 130
Bromoform	50	U	2500	2130		ug/L		85	70 - 130
Bromomethane	50	U	2500	2000		ug/L		80	23 - 165
2-Butanone (MEK)	500	U	5000	5380		ug/L		108	49 - 172
Carbon disulfide	100	U	2500	2900		ug/L		116	54 - 132
Carbon tetrachloride	1100		2500	3530		ug/L		97	70 - 130
Chlorobenzene	160		2500	2710		ug/L		102	70 - 130
Chloroethane	50	U	2500	2030		ug/L		81	56 - 152
Chloroform	140		2500	2890		ug/L		110	70 - 130
Chloromethane	50	U	2500	2820		ug/L		113	70 - 130
Chlorodibromomethane	50	U	2500	2510		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	50	U	2500	2490		ug/L		100	70 - 130
Ethylene Dibromide	50	U	2500	2500		ug/L		100	70 - 130
Dibromomethane	50	U	2500	2450		ug/L		98	70 - 130
Dichlorodifluoromethane	50	U	2500	3510		ug/L		141	44 - 146
1,1-Dichloroethane	50	U	2500	2800		ug/L		112	70 - 130
1,2-Dichloroethane	50	U	2500	2290		ug/L		92	70 - 130
cis-1,2-Dichloroethene	50	U	2500	2780		ug/L		111	70 - 130
trans-1,2-Dichloroethene	50	U	2500	2910		ug/L		116	70 - 130
1,1-Dichloroethene	50	U	2500	2870		ug/L		115	66 - 131
1,2-Dichloropropane	50	U	2500	2610		ug/L		104	70 - 130
cis-1,3-Dichloropropene	50	U	2500	2480		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50	U	2500	2420		ug/L		97	70 - 130
Ethylbenzene	63		2500	2600		ug/L		102	70 - 130
2-Hexanone	500	U	5000	4960		ug/L		99	42 - 185
Methylene Chloride	170	J	2500	3230		ug/L		122	67 - 130
4-Methyl-2-pentanone (MIBK)	500	U	5000	5020		ug/L		100	70 - 130
Styrene	50	U	2500	2580		ug/L		103	70 - 130
1,1,1,2-Tetrachloroethane	50	U	2500	2530		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	50	U	2500	2550		ug/L		102	70 - 130
Tetrachloroethene	50	U	2500	2630		ug/L		105	70 - 130
Toluene	28	J	2500	2550		ug/L		101	70 - 130
1,1,1-Trichloroethane	50	U	2500	2370		ug/L		95	70 - 130
1,1,2-Trichloroethane	50	U	2500	2550		ug/L		102	70 - 130
Trichloroethene	50	U	2500	2530		ug/L		101	70 - 130
Trichlorofluoromethane	50	U	2500	2790		ug/L		112	55 - 156
1,2,3-Trichloropropane	50	U	2500	2460		ug/L		98	70 - 130
Vinyl acetate	100	U	5000	5830		ug/L		117	60 - 176
Vinyl chloride	50	U	2500	2780		ug/L		111	67 - 134
Xylenes, Total	73	J	7500	7780		ug/L		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*70 - 130*
Dibromofluoromethane	*108*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

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

Lab Sample ID: 680-75076-4 MSD
Matrix: Water
Analysis Batch: 223702

Client Sample ID: ASH-MW08-120711
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	1300	U	5000	5140		ug/L		103	26 - 180	4	50
Benzene	5000		2500	6400	F	ug/L		55	70 - 130	0	30
Dichlorobromomethane	13	U	2500	2480		ug/L		99	70 - 130	1	30
Bromoform	50	U	2500	2220		ug/L		89	70 - 130	4	30
Bromomethane	50	U	2500	2690		ug/L		107	23 - 165	29	50
2-Butanone (MEK)	500	U	5000	5500		ug/L		110	49 - 172	2	30
Carbon disulfide	100	U	2500	2720		ug/L		109	54 - 132	6	30
Carbon tetrachloride	1100		2500	3380		ug/L		91	70 - 130	4	30
Chlorobenzene	160		2500	2780		ug/L		104	70 - 130	2	30
Chloroethane	50	U	2500	1960		ug/L		78	56 - 152	4	40
Chloroform	140		2500	2860		ug/L		109	70 - 130	1	30
Chloromethane	50	U	2500	2730		ug/L		109	70 - 130	3	30
Chlorodibromomethane	50	U	2500	2600		ug/L		104	70 - 130	4	50
1,2-Dibromo-3-Chloropropane	50	U	2500	2640		ug/L		106	70 - 130	6	50
Ethylene Dibromide	50	U	2500	2610		ug/L		104	70 - 130	4	30
Dibromomethane	50	U	2500	2560		ug/L		102	70 - 130	4	30
Dichlorodifluoromethane	50	U	2500	2950		ug/L		118	44 - 146	17	50
1,1-Dichloroethane	50	U	2500	2670		ug/L		107	70 - 130	5	30
1,2-Dichloroethane	50	U	2500	2370		ug/L		95	70 - 130	4	30
cis-1,2-Dichloroethene	50	U	2500	2710		ug/L		108	70 - 130	3	30
trans-1,2-Dichloroethene	50	U	2500	2720		ug/L		109	70 - 130	7	30
1,1-Dichloroethene	50	U	2500	2650		ug/L		106	66 - 131	8	30
1,2-Dichloropropane	50	U	2500	2680		ug/L		107	70 - 130	3	30
cis-1,3-Dichloropropene	50	U	2500	2520		ug/L		101	70 - 130	2	30
trans-1,3-Dichloropropene	50	U	2500	2510		ug/L		100	70 - 130	4	50
Ethylbenzene	63		2500	2560		ug/L		100	70 - 130	2	30
2-Hexanone	500	U	5000	5210		ug/L		104	42 - 185	5	30
Methylene Chloride	170	J	2500	3180		ug/L		120	67 - 130	1	30
4-Methyl-2-pentanone (MIBK)	500	U	5000	5290		ug/L		106	70 - 130	5	30
Styrene	50	U	2500	2650		ug/L		106	70 - 130	3	30
1,1,1,2-Tetrachloroethane	50	U	2500	2520		ug/L		101	70 - 130	0	30
1,1,2,2-Tetrachloroethane	50	U	2500	2730		ug/L		109	70 - 130	7	30
Tetrachloroethene	50	U	2500	2540		ug/L		102	70 - 130	3	30
Toluene	28	J	2500	2550		ug/L		101	70 - 130	0	30
1,1,1-Trichloroethane	50	U	2500	2340		ug/L		94	70 - 130	1	30
1,1,2-Trichloroethane	50	U	2500	2660		ug/L		107	70 - 130	4	30
Trichloroethene	50	U	2500	2490		ug/L		100	70 - 130	2	30
Trichlorofluoromethane	50	U	2500	2440		ug/L		98	55 - 156	13	30
1,2,3-Trichloropropane	50	U	2500	2600		ug/L		104	70 - 130	6	30
Vinyl acetate	100	U	5000	5760		ug/L		115	60 - 176	1	30
Vinyl chloride	50	U	2500	2520		ug/L		101	67 - 134	10	30
Xylenes, Total	73	J	7500	7680		ug/L		101	70 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*70 - 130*
Dibromofluoromethane	*106*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

GC/MS VOA

Analysis Batch: 223550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-75076-1	ASH-MW12-120711	Total/NA	Water	8260B	
680-75076-2	ASH-MW04-120711	Total/NA	Water	8260B	
680-75076-3	ASH-MW06-120711	Total/NA	Water	8260B	
680-75076-4	ASH-MW08-120711	Total/NA	Water	8260B	
680-75076-5	ASH-RS3-120711	Total/NA	Water	8260B	
680-75076-6	ASH-EB2-120711	Total/NA	Water	8260B	
680-75076-7	ASH-DUPA-120711	Total/NA	Water	8260B	
680-75076-8	ASH-MW24-120711	Total/NA	Water	8260B	
680-75076-9	ASH-MW16-120711	Total/NA	Water	8260B	
680-75076-10	Trip Blank Lot # 110211	Total/NA	Water	8260B	
680-75076-11	ASH-MW15-120711	Total/NA	Water	8260B	
LCS 680-223550/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-223550/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-223550/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 223702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-75076-4 MS	ASH-MW08-120711	Total/NA	Water	8260B	
680-75076-4 MSD	ASH-MW08-120711	Total/NA	Water	8260B	
LCS 680-223702/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-223702/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-223702/7	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-MW12-120711 — Lab Sample ID: 680-75076-1

Date Collected: 12/07/11 09:37 — **Matrix: Water**
Date Received: 12/08/11 09:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223550	12/14/11 04:34	AJMC	TAL SAV

Client Sample ID: ASH-MW04-120711 — Lab Sample ID: 680-75076-2

Date Collected: 12/07/11 10:12 — **Matrix: Water**
Date Received: 12/08/11 09:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223550	12/14/11 02:30	AJMC	TAL SAV

Client Sample ID: ASH-MW06-120711 — Lab Sample ID: 680-75076-3

Date Collected: 12/07/11 11:02 — **Matrix: Water**
Date Received: 12/08/11 09:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223550	12/14/11 02:50	AJMC	TAL SAV

Client Sample ID: ASH-MW08-120711 — Lab Sample ID: 680-75076-4

Date Collected: 12/07/11 12:25 — **Matrix: Water**
Date Received: 12/08/11 09:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	223550	12/14/11 01:27	AJMC	TAL SAV

Client Sample ID: ASH-RS3-120711 — Lab Sample ID: 680-75076-5

Date Collected: 12/07/11 12:50 — **Matrix: Water**
Date Received: 12/08/11 09:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223550	12/14/11 03:32	AJMC	TAL SAV

Client Sample ID: ASH-EB2-120711 — Lab Sample ID: 680-75076-6

Date Collected: 12/07/11 12:08 — **Matrix: Water**
Date Received: 12/08/11 09:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223550	12/14/11 03:11	AJMC	TAL SAV

Client Sample ID: ASH-DUPA-120711 — Lab Sample ID: 680-75076-7

Date Collected: 12/07/11 00:00 — **Matrix: Water**
Date Received: 12/08/11 09:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	223550	12/14/11 01:48	AJMC	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Client Sample ID: ASH-MW24-120711

Lab Sample ID: 680-75076-8

Date Collected: 12/07/11 14:36
Matrix: Water
Date Received: 12/08/11 09:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223550	12/14/11 00:25	AJMC	TAL SAV

Client Sample ID: ASH-MW16-120711

Lab Sample ID: 680-75076-9

Date Collected: 12/07/11 15:45
Matrix: Water
Date Received: 12/08/11 09:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223550	12/14/11 00:46	AJMC	TAL SAV

Client Sample ID: Trip Blank Lot # 110211

Lab Sample ID: 680-75076-10

Date Collected: 12/07/11 00:00
Matrix: Water
Date Received: 12/08/11 09:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223550	12/13/11 23:23	AJMC	TAL SAV

Client Sample ID: ASH-MW15-120711

Lab Sample ID: 680-75076-11

Date Collected: 12/07/11 16:51
Matrix: Water
Date Received: 12/08/11 09:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223550	12/14/11 01:07	AJMC	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Custody seal # 970460
Bottle order # 37625
Associated COC p. 2 of 2 = # 48994
Serial Number 48997

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Ashland Semi-Annual GM	11168	MS
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lidya Gulizia	4501789838	
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Tim Hassett	302.995.3456	995.3485
CLIENT NAME	CLIENT E-MAIL	
Ashland	tdhassett@ashland.com	
CLIENT ADDRESS 500 Hercules Road Wilmington, DE. 19808-1599		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: #8260 VOC	REQUIRED ANALYSIS: 4m PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
12-07-11	0937	ASH-MW12-120711	G	X				6		3	Note: QAPP RLs/Equis EDD (Arcadis Format)
12-07-11	1012	ASH-MW04-120711	G	X				6		3	
12-07-11	1102	ASH-MW06-120711	G	X				6		3	
12-07-11	1225	ASH-MW08-120711	G	X				6		3	
12-07-11	1225	ASH-MW08-120711-MS	G	X				6		3	
12-07-11	1225	ASH-MW08-120711-MSD	G	X				6		3	
12-07-11	1250	ASH-RS3-120711	G	X				6		3	
12-07-11	1208	ASH-EB2-120711	G	X				6		3	
12-07-11	NA	ASH-DUPA-120711	G	X				6		3	
12-07-11	1436	ASH-MW24-120711	G	X				6		3	
12-07-11	1545	ASH-MW16-120711	G	X				6		3	
12-07-11	NA	Trip Blank Lot # 110211	G	X				6		2	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	12-07-11	1745						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	12/8/11	0936	YES ○ NO ○		680-75076	1.8°C

Page 44 of 47

FedEx Tracking # 8749 7182 2303
Custody Seal # 970460
Bottle Order # 37625

Associated Pg 1 of 2 COC is # 48997

Serial Number 48994

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: Ashland Semi-Annual GM	PROJECT NO.: 11168	PROJECT LOCATION (STATE): MS
TAL (LAB) PROJECT MANAGER: Lidya Gulizia	P.O. NUMBER: 4501789838	CONTRACT NO.
CLIENT (SITE) PM: Tim Hassett	CLIENT PHONE: 302.995.3456	CLIENT FAX: 995-3485
CLIENT NAME: Ashland Chemical	CLIENT E-MAIL: tdhassett@ashland.com	
CLIENT ADDRESS: 500 Hercules Road, Wilmington, DE. 19808-1599		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: App VOC — CBG

PRESERVATIVE: 5

PAGE 2 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	C/G	AQUEOUS	SOLID	AIR	NONAQUEOUS	NUMBER OF CONTAINERS SUBMITTED (App VOC)	REMARKS
12-07-11	1651	ASH-MW15-120711	G	X				3	Note: QAPP RL's / Equis EDD (Arcadis Format)

CBG

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
CBG	12-7-11	1745						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	12/8/11	0936	YES ○ NO ○		680-75076	1.8°C

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-75076-1

Login Number: 75076

List Source: TestAmerica Savannah

List Number: 1

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is 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	1.8 C
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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - SA GW DEC 2011

TestAmerica Job ID: 680-75076-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-75145-1
Client Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011
Revision: 2

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Timothy Hassett

Authorized for release by:
1/10/2012 3:57:59 PM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

cc: Craig Derouen

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Case Narrative

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Job ID: 680-75145-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-75145-1 Revised (Rev 2)

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) for analytical batch 223726 exceeded average % Drift (%D) control criteria. These are in-house criteria established as limits for these compounds that are not specified in the reference method. Additionally, %Ds for all analytes of concern were within established in-house limits; therefore, re-extraction/re-analysis was not performed, and the data have been reported.

Method(s) 8260B: The method blank for batch 223802 contained chlorobenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Comments
The sample results were revised at the client's request to report results at the method detection limit (MDL) for Dichlorobromomethane and Chloroform.

No additional comments.

Sample Summary

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-75145-1	ASH-MW14-120811	Water	12/08/11 11:58	12/09/11 09:27
680-75145-2	ASH-MW20-120811	Water	12/08/11 08:26	12/09/11 09:27
680-75145-3	ASH-MW07-120811	Water	12/08/11 08:29	12/09/11 09:27
680-75145-4	ASH-MW18-120811	Water	12/08/11 10:06	12/09/11 09:27
680-75145-5	ASH-MW19-120811	Water	12/08/11 11:29	12/09/11 09:27
680-75145-6	ASH-MW09-120811	Water	12/08/11 09:35	12/09/11 09:27
680-75145-7	ASH-DUPB-120811	Water	12/08/11 00:00	12/09/11 09:27
680-75145-8	ASH-MW22-120811	Water	12/08/11 14:45	12/09/11 09:27
680-75145-9	ASH-MW13-120811	Water	12/08/11 14:09	12/09/11 09:27
680-75145-10	ASH-RS4-120811	Water	12/08/11 14:30	12/09/11 09:27
680-75145-11	ASH-MW17-120811	Water	12/08/11 15:54	12/09/11 09:27
680-75145-12	ASH-EB3-120811	Water	12/08/11 14:30	12/09/11 09:27
680-75145-13	ASH-MW21-120811	Water	12/08/11 16:14	12/09/11 09:27
680-75145-14	Trip Blank Lot# 112811	Water	12/08/11 00:00	12/09/11 09:27

Method Summary

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

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

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
B	Compound was found in the blank and sample.

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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW14-120811 — Lab Sample ID: 680-75145-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J	25	5.0	ug/L	1		8260B	Total/NA

Client Sample ID: ASH-MW20-120811 — Lab Sample ID: 680-75145-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.80	J	1.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	0.63	J	1.0	0.25	ug/L	1		8260B	Total/NA
Ethylbenzene	0.33	J	1.0	0.11	ug/L	1		8260B	Total/NA

Client Sample ID: ASH-MW07-120811 — Lab Sample ID: 680-75145-3

No Detections

Client Sample ID: ASH-MW18-120811 — Lab Sample ID: 680-75145-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.42	J	1.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	17		1.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.48	J	1.0	0.11	ug/L	1		8260B	Total/NA
1,2-Dichloropropane	0.40	J	1.0	0.13	ug/L	1		8260B	Total/NA
Ethylbenzene	0.26	J	1.0	0.11	ug/L	1		8260B	Total/NA
Trichloroethene	0.39	J	1.0	0.13	ug/L	1		8260B	Total/NA
Xylenes, Total	0.25	J	2.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: ASH-MW19-120811 — Lab Sample ID: 680-75145-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.0	J	25	5.0	ug/L	1		8260B	Total/NA
Benzene	51		1.0	0.25	ug/L	1		8260B	Total/NA
Carbon tetrachloride	0.66	J	1.0	0.50	ug/L	1		8260B	Total/NA
Chlorobenzene	10		1.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	1.3		0.14	0.14	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.87	J	1.0	0.11	ug/L	1		8260B	Total/NA
Ethylbenzene	2.0		1.0	0.11	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.47	J	1.0	0.15	ug/L	1		8260B	Total/NA
Toluene	1.6		1.0	0.33	ug/L	1		8260B	Total/NA
Xylenes, Total	1.6	J	2.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: ASH-MW09-120811 — Lab Sample ID: 680-75145-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.89	J	1.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	0.58	J	1.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.77	J	1.0	0.11	ug/L	1		8260B	Total/NA

Client Sample ID: ASH-DUPB-120811 — Lab Sample ID: 680-75145-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.1	J	25	5.0	ug/L	1		8260B	Total/NA
Benzene	49		1.0	0.25	ug/L	1		8260B	Total/NA
Carbon tetrachloride	0.70	J	1.0	0.50	ug/L	1		8260B	Total/NA
Chlorobenzene	10	B	1.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	1.4		0.14	0.14	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	1.0		1.0	0.11	ug/L	1		8260B	Total/NA

Client Sample ID: ASH-DUPB-120811 (Continued) — Lab Sample ID: 680-75145-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.9		1.0	0.11	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.41	J	1.0	0.15	ug/L	1		8260B	Total/NA
Toluene	1.5		1.0	0.33	ug/L	1		8260B	Total/NA
Xylenes, Total	1.6	J	2.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: ASH-MW22-120811 — Lab Sample ID: 680-75145-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15	J	25	5.0	ug/L	1		8260B	Total/NA
Benzene	8.1		1.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	12		1.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	1.1		0.14	0.14	ug/L	1		8260B	Total/NA
Ethylbenzene	0.40	J	1.0	0.11	ug/L	1		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	30		10	1.0	ug/L	1		8260B	Total/NA
Styrene	0.19	J	1.0	0.11	ug/L	1		8260B	Total/NA
Toluene	1.0		1.0	0.33	ug/L	1		8260B	Total/NA

Client Sample ID: ASH-MW13-120811 — Lab Sample ID: 680-75145-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.3	J	25	5.0	ug/L	1		8260B	Total/NA
Benzene	77		1.0	0.25	ug/L	1		8260B	Total/NA
Carbon tetrachloride	120		1.0	0.50	ug/L	1		8260B	Total/NA
Chlorobenzene	5.5	B	1.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	36		0.14	0.14	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.65	J	1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.27	J	1.0	0.11	ug/L	1		8260B	Total/NA
Ethylbenzene	0.16	J	1.0	0.11	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.17	J	1.0	0.15	ug/L	1		8260B	Total/NA
Xylenes, Total	0.30	J	2.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: ASH-RS4-120811 — Lab Sample ID: 680-75145-10

No Detections

Client Sample ID: ASH-MW17-120811 — Lab Sample ID: 680-75145-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3200		200	50	ug/L	200		8260B	Total/NA
Carbon tetrachloride	40000	E	200	100	ug/L	200		8260B	Total/NA
Chlorobenzene	710		200	50	ug/L	200		8260B	Total/NA
Chloroform	3500		28	28	ug/L	200		8260B	Total/NA
cis-1,2-Dichloroethene	34	J	200	30	ug/L	200		8260B	Total/NA
Ethylbenzene	150	J	200	22	ug/L	200		8260B	Total/NA
Toluene	140	J	200	66	ug/L	200		8260B	Total/NA
Xylenes, Total	320	J	400	40	ug/L	200		8260B	Total/NA
Benzene - DL	3300	D	500	130	ug/L	500		8260B	Total/NA
Carbon tetrachloride - DL	36000	D	500	250	ug/L	500		8260B	Total/NA
Chlorobenzene - DL	1000	D B	500	130	ug/L	500		8260B	Total/NA
Chloroform - DL	3300	D	70	70	ug/L	500		8260B	Total/NA
Ethylbenzene - DL	160	J D	500	55	ug/L	500		8260B	Total/NA
Xylenes, Total - DL	400	J D	1000	100	ug/L	500		8260B	Total/NA

Detection Summary

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-EB3-120811 — Lab Sample ID: 680-75145-12

No Detections

Client Sample ID: ASH-MW21-120811 — Lab Sample ID: 680-75145-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	340	J	1300	250	ug/L	50		8260B	Total/NA
Benzene	5200		50	13	ug/L	50		8260B	Total/NA
Chlorobenzene	220		50	13	ug/L	50		8260B	Total/NA
Chloroform	5100		7.0	7.0	ug/L	50		8260B	Total/NA
1,1-Dichloroethene	16	J	50	5.5	ug/L	50		8260B	Total/NA
Methylene Chloride	100	J	250	50	ug/L	50		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	570		500	50	ug/L	50		8260B	Total/NA
Tetrachloroethene	8.0	J	50	7.5	ug/L	50		8260B	Total/NA
Toluene	3300		50	17	ug/L	50		8260B	Total/NA

Client Sample ID: Trip Blank Lot# 112811 — Lab Sample ID: 680-75145-14

No Detections

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW14-120811
Date Collected: 12/08/11 11:58
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	13	J	25	5.0	ug/L			12/14/11 23:16	1
Acetonitrile	40	U	40	10	ug/L			12/14/11 23:16	1
Acrolein	20	U	20	7.4	ug/L			12/14/11 23:16	1
Acrylonitrile	20	U	20	7.2	ug/L			12/14/11 23:16	1
Benzene	1.0	U	1.0	0.25	ug/L			12/14/11 23:16	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/14/11 23:16	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/14/11 23:16	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/14/11 23:16	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/14/11 23:16	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/14/11 23:16	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/14/11 23:16	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/14/11 23:16	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/14/11 23:16	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/14/11 23:16	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/14/11 23:16	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/14/11 23:16	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/14/11 23:16	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/14/11 23:16	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/14/11 23:16	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/14/11 23:16	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/14/11 23:16	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/14/11 23:16	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 23:16	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/14/11 23:16	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/14/11 23:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 23:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/14/11 23:16	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/14/11 23:16	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/14/11 23:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/14/11 23:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/14/11 23:16	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/14/11 23:16	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/14/11 23:16	1
2-Hexanone	10	U	10	1.0	ug/L			12/14/11 23:16	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/14/11 23:16	1
Isobutyl alcohol	40	U	40	11	ug/L			12/14/11 23:16	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/14/11 23:16	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/14/11 23:16	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/14/11 23:16	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/14/11 23:16	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/14/11 23:16	1
Propionitrile	20	U	20	4.6	ug/L			12/14/11 23:16	1
Styrene	1.0	U	1.0	0.11	ug/L			12/14/11 23:16	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/14/11 23:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/14/11 23:16	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 23:16	1
Toluene	1.0	U	1.0	0.33	ug/L			12/14/11 23:16	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/14/11 23:16	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/14/11 23:16	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/14/11 23:16	1

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW14-120811
Date Collected: 12/08/11 11:58
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 23:16	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/14/11 23:16	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/14/11 23:16	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/14/11 23:16	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/14/11 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*12/14/11 23:16*	*1*
Dibromofluoromethane	*87*		*70 - 130*		*12/14/11 23:16*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*12/14/11 23:16*	*1*

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW20-120811
Date Collected: 12/08/11 08:26
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/14/11 23:38	1
Acetonitrile	40	U	40	10	ug/L			12/14/11 23:38	1
Acrolein	20	U	20	7.4	ug/L			12/14/11 23:38	1
Acrylonitrile	20	U	20	7.2	ug/L			12/14/11 23:38	1
Benzene	**0.80**	**J**	1.0	0.25	ug/L			12/14/11 23:38	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/14/11 23:38	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/14/11 23:38	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/14/11 23:38	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/14/11 23:38	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/14/11 23:38	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/14/11 23:38	1
Chlorobenzene	**0.63**	**J**	1.0	0.25	ug/L			12/14/11 23:38	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/14/11 23:38	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/14/11 23:38	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/14/11 23:38	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/14/11 23:38	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/14/11 23:38	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/14/11 23:38	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/14/11 23:38	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/14/11 23:38	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/14/11 23:38	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/14/11 23:38	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 23:38	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/14/11 23:38	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/14/11 23:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 23:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/14/11 23:38	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/14/11 23:38	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/14/11 23:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/14/11 23:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/14/11 23:38	1
Ethylbenzene	**0.33**	**J**	1.0	0.11	ug/L			12/14/11 23:38	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/14/11 23:38	1
2-Hexanone	10	U	10	1.0	ug/L			12/14/11 23:38	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/14/11 23:38	1
Isobutyl alcohol	40	U	40	11	ug/L			12/14/11 23:38	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/14/11 23:38	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/14/11 23:38	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/14/11 23:38	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/14/11 23:38	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/14/11 23:38	1
Propionitrile	20	U	20	4.6	ug/L			12/14/11 23:38	1
Styrene	1.0	U	1.0	0.11	ug/L			12/14/11 23:38	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/14/11 23:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/14/11 23:38	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 23:38	1
Toluene	1.0	U	1.0	0.33	ug/L			12/14/11 23:38	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/14/11 23:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/14/11 23:38	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/14/11 23:38	1

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW20-120811
Date Collected: 12/08/11 08:26
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 23:38	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/14/11 23:38	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/14/11 23:38	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/14/11 23:38	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/14/11 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 130*		*12/14/11 23:38*	*1*
Dibromofluoromethane	*89*		*70 - 130*		*12/14/11 23:38*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*12/14/11 23:38*	*1*

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW07-120811
Date Collected: 12/08/11 08:29
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/15/11 00:01	1
Acetonitrile	40	U	40	10	ug/L			12/15/11 00:01	1
Acrolein	20	U	20	7.4	ug/L			12/15/11 00:01	1
Acrylonitrile	20	U	20	7.2	ug/L			12/15/11 00:01	1
Benzene	1.0	U	1.0	0.25	ug/L			12/15/11 00:01	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/15/11 00:01	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/15/11 00:01	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/15/11 00:01	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/15/11 00:01	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/15/11 00:01	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/15/11 00:01	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/15/11 00:01	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/15/11 00:01	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/15/11 00:01	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/15/11 00:01	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/15/11 00:01	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/15/11 00:01	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/15/11 00:01	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/15/11 00:01	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/15/11 00:01	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/15/11 00:01	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/15/11 00:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 00:01	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/15/11 00:01	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/15/11 00:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 00:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/15/11 00:01	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/15/11 00:01	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/15/11 00:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/15/11 00:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/15/11 00:01	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/15/11 00:01	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/15/11 00:01	1
2-Hexanone	10	U	10	1.0	ug/L			12/15/11 00:01	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/15/11 00:01	1
Isobutyl alcohol	40	U	40	11	ug/L			12/15/11 00:01	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/15/11 00:01	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/15/11 00:01	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/15/11 00:01	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/15/11 00:01	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/15/11 00:01	1
Propionitrile	20	U	20	4.6	ug/L			12/15/11 00:01	1
Styrene	1.0	U	1.0	0.11	ug/L			12/15/11 00:01	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/15/11 00:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/15/11 00:01	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 00:01	1
Toluene	1.0	U	1.0	0.33	ug/L			12/15/11 00:01	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/15/11 00:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/15/11 00:01	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/15/11 00:01	1

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW07-120811
Date Collected: 12/08/11 08:29
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 00:01	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/15/11 00:01	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/15/11 00:01	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/15/11 00:01	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/15/11 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*70 - 130*		*12/15/11 00:01*	*1*
Dibromofluoromethane	*88*		*70 - 130*		*12/15/11 00:01*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*12/15/11 00:01*	*1*

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW18-120811
Date Collected: 12/08/11 10:06
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/15/11 00:23	1
Acetonitrile	40	U	40	10	ug/L			12/15/11 00:23	1
Acrolein	20	U	20	7.4	ug/L			12/15/11 00:23	1
Acrylonitrile	20	U	20	7.2	ug/L			12/15/11 00:23	1
Benzene	**0.42**	**J**	1.0	0.25	ug/L			12/15/11 00:23	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/15/11 00:23	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/15/11 00:23	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/15/11 00:23	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/15/11 00:23	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/15/11 00:23	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/15/11 00:23	1
Chlorobenzene	**17**		1.0	0.25	ug/L			12/15/11 00:23	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/15/11 00:23	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/15/11 00:23	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/15/11 00:23	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/15/11 00:23	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/15/11 00:23	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/15/11 00:23	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/15/11 00:23	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/15/11 00:23	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/15/11 00:23	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/15/11 00:23	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 00:23	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/15/11 00:23	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/15/11 00:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 00:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/15/11 00:23	1
1,1-Dichloroethene	**0.48**	**J**	1.0	0.11	ug/L			12/15/11 00:23	1
1,2-Dichloropropane	**0.40**	**J**	1.0	0.13	ug/L			12/15/11 00:23	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/15/11 00:23	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/15/11 00:23	1
Ethylbenzene	**0.26**	**J**	1.0	0.11	ug/L			12/15/11 00:23	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/15/11 00:23	1
2-Hexanone	10	U	10	1.0	ug/L			12/15/11 00:23	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/15/11 00:23	1
Isobutyl alcohol	40	U	40	11	ug/L			12/15/11 00:23	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/15/11 00:23	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/15/11 00:23	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/15/11 00:23	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/15/11 00:23	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/15/11 00:23	1
Propionitrile	20	U	20	4.6	ug/L			12/15/11 00:23	1
Styrene	1.0	U	1.0	0.11	ug/L			12/15/11 00:23	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/15/11 00:23	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/15/11 00:23	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 00:23	1
Toluene	1.0	U	1.0	0.33	ug/L			12/15/11 00:23	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/15/11 00:23	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/15/11 00:23	1
Trichloroethene	**0.39**	**J**	1.0	0.13	ug/L			12/15/11 00:23	1

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW18-120811
Date Collected: 12/08/11 10:06
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 00:23	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/15/11 00:23	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/15/11 00:23	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/15/11 00:23	1
Xylenes, Total	**0.25**	**J**	2.0	0.20	ug/L			12/15/11 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*12/15/11 00:23*	*1*
Dibromofluoromethane	*90*		*70 - 130*		*12/15/11 00:23*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/15/11 00:23*	*1*

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW19-120811
Date Collected: 12/08/11 11:29
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.0**	**J**	25	5.0	ug/L			12/15/11 00:45	1
Acetonitrile	40	U	40	10	ug/L			12/15/11 00:45	1
Acrolein	20	U	20	7.4	ug/L			12/15/11 00:45	1
Acrylonitrile	20	U	20	7.2	ug/L			12/15/11 00:45	1
Benzene	**51**		1.0	0.25	ug/L			12/15/11 00:45	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/15/11 00:45	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/15/11 00:45	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/15/11 00:45	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/15/11 00:45	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/15/11 00:45	1
Carbon tetrachloride	**0.66**	**J**	1.0	0.50	ug/L			12/15/11 00:45	1
Chlorobenzene	**10**		1.0	0.25	ug/L			12/15/11 00:45	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/15/11 00:45	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/15/11 00:45	1
Chloroform	**1.3**		0.14	0.14	ug/L			12/15/11 00:45	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/15/11 00:45	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/15/11 00:45	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/15/11 00:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/15/11 00:45	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/15/11 00:45	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/15/11 00:45	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/15/11 00:45	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 00:45	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/15/11 00:45	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/15/11 00:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 00:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/15/11 00:45	1
1,1-Dichloroethene	**0.87**	**J**	1.0	0.11	ug/L			12/15/11 00:45	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/15/11 00:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/15/11 00:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/15/11 00:45	1
Ethylbenzene	**2.0**		1.0	0.11	ug/L			12/15/11 00:45	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/15/11 00:45	1
2-Hexanone	10	U	10	1.0	ug/L			12/15/11 00:45	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/15/11 00:45	1
Isobutyl alcohol	40	U	40	11	ug/L			12/15/11 00:45	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/15/11 00:45	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/15/11 00:45	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/15/11 00:45	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/15/11 00:45	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/15/11 00:45	1
Propionitrile	20	U	20	4.6	ug/L			12/15/11 00:45	1
Styrene	1.0	U	1.0	0.11	ug/L			12/15/11 00:45	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/15/11 00:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/15/11 00:45	1
Tetrachloroethene	**0.47**	**J**	1.0	0.15	ug/L			12/15/11 00:45	1
Toluene	**1.6**		1.0	0.33	ug/L			12/15/11 00:45	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/15/11 00:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/15/11 00:45	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/15/11 00:45	1

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW19-120811
Date Collected: 12/08/11 11:29
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 00:45	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/15/11 00:45	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/15/11 00:45	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/15/11 00:45	1
Xylenes, Total	**1.6**	**J**	2.0	0.20	ug/L			12/15/11 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*70 - 130*		*12/15/11 00:45*	*1*
Dibromofluoromethane	*83*		*70 - 130*		*12/15/11 00:45*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/15/11 00:45*	*1*

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW09-120811
Date Collected: 12/08/11 09:35
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/15/11 01:08	1
Acetonitrile	40	U	40	10	ug/L			12/15/11 01:08	1
Acrolein	20	U	20	7.4	ug/L			12/15/11 01:08	1
Acrylonitrile	20	U	20	7.2	ug/L			12/15/11 01:08	1
Benzene	**0.89**	**J**	1.0	0.25	ug/L			12/15/11 01:08	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/15/11 01:08	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/15/11 01:08	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/15/11 01:08	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/15/11 01:08	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/15/11 01:08	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/15/11 01:08	1
Chlorobenzene	**0.58**	**J**	1.0	0.25	ug/L			12/15/11 01:08	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/15/11 01:08	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/15/11 01:08	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/15/11 01:08	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/15/11 01:08	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/15/11 01:08	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/15/11 01:08	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/15/11 01:08	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/15/11 01:08	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/15/11 01:08	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/15/11 01:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 01:08	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/15/11 01:08	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/15/11 01:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 01:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/15/11 01:08	1
1,1-Dichloroethene	**0.77**	**J**	1.0	0.11	ug/L			12/15/11 01:08	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/15/11 01:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/15/11 01:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/15/11 01:08	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/15/11 01:08	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/15/11 01:08	1
2-Hexanone	10	U	10	1.0	ug/L			12/15/11 01:08	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/15/11 01:08	1
Isobutyl alcohol	40	U	40	11	ug/L			12/15/11 01:08	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/15/11 01:08	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/15/11 01:08	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/15/11 01:08	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/15/11 01:08	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/15/11 01:08	1
Propionitrile	20	U	20	4.6	ug/L			12/15/11 01:08	1
Styrene	1.0	U	1.0	0.11	ug/L			12/15/11 01:08	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/15/11 01:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/15/11 01:08	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 01:08	1
Toluene	1.0	U	1.0	0.33	ug/L			12/15/11 01:08	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/15/11 01:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/15/11 01:08	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/15/11 01:08	1

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW09-120811
Date Collected: 12/08/11 09:35
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 01:08	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/15/11 01:08	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/15/11 01:08	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/15/11 01:08	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/15/11 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*70 - 130*		*12/15/11 01:08*	*1*
Dibromofluoromethane	*89*		*70 - 130*		*12/15/11 01:08*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*12/15/11 01:08*	*1*

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-DUPB-120811
Date Collected: 12/08/11 00:00
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.1**	**J**	25	5.0	ug/L			12/15/11 13:31	1
Acetonitrile	40	U	40	10	ug/L			12/15/11 13:31	1
Acrolein	20	U	20	7.4	ug/L			12/15/11 13:31	1
Acrylonitrile	20	U	20	7.2	ug/L			12/15/11 13:31	1
Benzene	**49**		1.0	0.25	ug/L			12/15/11 13:31	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/15/11 13:31	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/15/11 13:31	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/15/11 13:31	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/15/11 13:31	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/15/11 13:31	1
Carbon tetrachloride	**0.70**	**J**	1.0	0.50	ug/L			12/15/11 13:31	1
Chlorobenzene	**10**	**B**	1.0	0.25	ug/L			12/15/11 13:31	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/15/11 13:31	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/15/11 13:31	1
Chloroform	**1.4**		0.14	0.14	ug/L			12/15/11 13:31	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/15/11 13:31	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/15/11 13:31	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/15/11 13:31	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/15/11 13:31	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/15/11 13:31	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/15/11 13:31	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/15/11 13:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 13:31	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/15/11 13:31	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/15/11 13:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 13:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/15/11 13:31	1
1,1-Dichloroethene	**1.0**		1.0	0.11	ug/L			12/15/11 13:31	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/15/11 13:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/15/11 13:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/15/11 13:31	1
Ethylbenzene	**1.9**		1.0	0.11	ug/L			12/15/11 13:31	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/15/11 13:31	1
2-Hexanone	10	U	10	1.0	ug/L			12/15/11 13:31	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/15/11 13:31	1
Isobutyl alcohol	40	U	40	11	ug/L			12/15/11 13:31	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/15/11 13:31	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/15/11 13:31	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/15/11 13:31	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/15/11 13:31	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/15/11 13:31	1
Propionitrile	20	U	20	4.6	ug/L			12/15/11 13:31	1
Styrene	1.0	U	1.0	0.11	ug/L			12/15/11 13:31	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/15/11 13:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/15/11 13:31	1
Tetrachloroethene	**0.41**	**J**	1.0	0.15	ug/L			12/15/11 13:31	1
Toluene	**1.5**		1.0	0.33	ug/L			12/15/11 13:31	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/15/11 13:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/15/11 13:31	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/15/11 13:31	1

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-DUPB-120811
Date Collected: 12/08/11 00:00
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 13:31	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/15/11 13:31	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/15/11 13:31	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/15/11 13:31	1
Xylenes, Total	**1.6**	**J**	2.0	0.20	ug/L			12/15/11 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*70 - 130*		*12/15/11 13:31*	*1*
Dibromofluoromethane	*95*		*70 - 130*		*12/15/11 13:31*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*12/15/11 13:31*	*1*

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW22-120811
Date Collected: 12/08/11 14:45
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**15**	**J**	25	5.0	ug/L			12/15/11 01:30	1
Acetonitrile	40	U	40	10	ug/L			12/15/11 01:30	1
Acrolein	20	U	20	7.4	ug/L			12/15/11 01:30	1
Acrylonitrile	20	U	20	7.2	ug/L			12/15/11 01:30	1
Benzene	**8.1**		1.0	0.25	ug/L			12/15/11 01:30	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/15/11 01:30	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/15/11 01:30	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/15/11 01:30	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/15/11 01:30	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/15/11 01:30	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/15/11 01:30	1
Chlorobenzene	**12**		1.0	0.25	ug/L			12/15/11 01:30	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/15/11 01:30	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/15/11 01:30	1
Chloroform	**1.1**		0.14	0.14	ug/L			12/15/11 01:30	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/15/11 01:30	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/15/11 01:30	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/15/11 01:30	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/15/11 01:30	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/15/11 01:30	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/15/11 01:30	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/15/11 01:30	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 01:30	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/15/11 01:30	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/15/11 01:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 01:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/15/11 01:30	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/15/11 01:30	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/15/11 01:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/15/11 01:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/15/11 01:30	1
Ethylbenzene	**0.40**	**J**	1.0	0.11	ug/L			12/15/11 01:30	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/15/11 01:30	1
2-Hexanone	10	U	10	1.0	ug/L			12/15/11 01:30	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/15/11 01:30	1
Isobutyl alcohol	40	U	40	11	ug/L			12/15/11 01:30	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/15/11 01:30	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/15/11 01:30	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/15/11 01:30	1
4-Methyl-2-pentanone (MIBK)	**30**		10	1.0	ug/L			12/15/11 01:30	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/15/11 01:30	1
Propionitrile	20	U	20	4.6	ug/L			12/15/11 01:30	1
Styrene	**0.19**	**J**	1.0	0.11	ug/L			12/15/11 01:30	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/15/11 01:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/15/11 01:30	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 01:30	1
Toluene	**1.0**		1.0	0.33	ug/L			12/15/11 01:30	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/15/11 01:30	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/15/11 01:30	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/15/11 01:30	1

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW22-120811
Date Collected: 12/08/11 14:45
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 01:30	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/15/11 01:30	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/15/11 01:30	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/15/11 01:30	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/15/11 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*70 - 130*		*12/15/11 01:30*	*1*
Dibromofluoromethane	*91*		*70 - 130*		*12/15/11 01:30*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*12/15/11 01:30*	*1*

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW13-120811
Date Collected: 12/08/11 14:09
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.3**	**J**	25	5.0	ug/L			12/15/11 13:59	1
Acetonitrile	40	U	40	10	ug/L			12/15/11 13:59	1
Acrolein	20	U	20	7.4	ug/L			12/15/11 13:59	1
Acrylonitrile	20	U	20	7.2	ug/L			12/15/11 13:59	1
Benzene	**77**		1.0	0.25	ug/L			12/15/11 13:59	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/15/11 13:59	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/15/11 13:59	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/15/11 13:59	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/15/11 13:59	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/15/11 13:59	1
Carbon tetrachloride	**120**		1.0	0.50	ug/L			12/15/11 13:59	1
Chlorobenzene	**5.5**	**B**	1.0	0.25	ug/L			12/15/11 13:59	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/15/11 13:59	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/15/11 13:59	1
Chloroform	**36**		0.14	0.14	ug/L			12/15/11 13:59	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/15/11 13:59	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/15/11 13:59	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/15/11 13:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/15/11 13:59	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/15/11 13:59	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/15/11 13:59	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/15/11 13:59	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 13:59	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/15/11 13:59	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/15/11 13:59	1
cis-1,2-Dichloroethene	**0.65**	**J**	1.0	0.15	ug/L			12/15/11 13:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/15/11 13:59	1
1,1-Dichloroethene	**0.27**	**J**	1.0	0.11	ug/L			12/15/11 13:59	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/15/11 13:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/15/11 13:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/15/11 13:59	1
Ethylbenzene	**0.16**	**J**	1.0	0.11	ug/L			12/15/11 13:59	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/15/11 13:59	1
2-Hexanone	10	U	10	1.0	ug/L			12/15/11 13:59	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/15/11 13:59	1
Isobutyl alcohol	40	U	40	11	ug/L			12/15/11 13:59	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/15/11 13:59	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/15/11 13:59	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/15/11 13:59	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/15/11 13:59	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/15/11 13:59	1
Propionitrile	20	U	20	4.6	ug/L			12/15/11 13:59	1
Styrene	1.0	U	1.0	0.11	ug/L			12/15/11 13:59	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/15/11 13:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/15/11 13:59	1
Tetrachloroethene	**0.17**	**J**	1.0	0.15	ug/L			12/15/11 13:59	1
Toluene	1.0	U	1.0	0.33	ug/L			12/15/11 13:59	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/15/11 13:59	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/15/11 13:59	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/15/11 13:59	1

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW13-120811
Date Collected: 12/08/11 14:09
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 13:59	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/15/11 13:59	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/15/11 13:59	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/15/11 13:59	1
Xylenes, Total	**0.30**	**J**	2.0	0.20	ug/L			12/15/11 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*70 - 130*		*12/15/11 13:59*	*1*
Dibromofluoromethane	*99*		*70 - 130*		*12/15/11 13:59*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*12/15/11 13:59*	*1*

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-RS4-120811
Date Collected: 12/08/11 14:30
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/15/11 01:53	1
Acetonitrile	40	U	40	10	ug/L			12/15/11 01:53	1
Acrolein	20	U	20	7.4	ug/L			12/15/11 01:53	1
Acrylonitrile	20	U	20	7.2	ug/L			12/15/11 01:53	1
Benzene	1.0	U	1.0	0.25	ug/L			12/15/11 01:53	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/15/11 01:53	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/15/11 01:53	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/15/11 01:53	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/15/11 01:53	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/15/11 01:53	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/15/11 01:53	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/15/11 01:53	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/15/11 01:53	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/15/11 01:53	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/15/11 01:53	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/15/11 01:53	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/15/11 01:53	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/15/11 01:53	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/15/11 01:53	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/15/11 01:53	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/15/11 01:53	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/15/11 01:53	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 01:53	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/15/11 01:53	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/15/11 01:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 01:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/15/11 01:53	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/15/11 01:53	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/15/11 01:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/15/11 01:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/15/11 01:53	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/15/11 01:53	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/15/11 01:53	1
2-Hexanone	10	U	10	1.0	ug/L			12/15/11 01:53	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/15/11 01:53	1
Isobutyl alcohol	40	U	40	11	ug/L			12/15/11 01:53	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/15/11 01:53	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/15/11 01:53	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/15/11 01:53	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/15/11 01:53	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/15/11 01:53	1
Propionitrile	20	U	20	4.6	ug/L			12/15/11 01:53	1
Styrene	1.0	U	1.0	0.11	ug/L			12/15/11 01:53	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/15/11 01:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/15/11 01:53	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 01:53	1
Toluene	1.0	U	1.0	0.33	ug/L			12/15/11 01:53	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/15/11 01:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/15/11 01:53	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/15/11 01:53	1

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-RS4-120811
Date Collected: 12/08/11 14:30
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 01:53	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/15/11 01:53	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/15/11 01:53	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/15/11 01:53	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/15/11 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*70 - 130*		*12/15/11 01:53*	*1*
Dibromofluoromethane	*88*		*70 - 130*		*12/15/11 01:53*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*12/15/11 01:53*	*1*

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW17-120811
Date Collected: 12/08/11 15:54
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5000	U	5000	1000	ug/L			12/15/11 03:45	200
Acetonitrile	8000	U	8000	2000	ug/L			12/15/11 03:45	200
Acrolein	4000	U	4000	1500	ug/L			12/15/11 03:45	200
Acrylonitrile	4000	U	4000	1400	ug/L			12/15/11 03:45	200
Benzene	**3200**		200	50	ug/L			12/15/11 03:45	200
Dichlorobromomethane	50	U	50	50	ug/L			12/15/11 03:45	200
Bromoform	200	U	200	100	ug/L			12/15/11 03:45	200
Bromomethane	200	U	200	160	ug/L			12/15/11 03:45	200
2-Butanone (MEK)	2000	U	2000	200	ug/L			12/15/11 03:45	200
Carbon disulfide	400	U	400	120	ug/L			12/15/11 03:45	200
Carbon tetrachloride	**40000**	**E**	200	100	ug/L			12/15/11 03:45	200
Chlorobenzene	**710**		200	50	ug/L			12/15/11 03:45	200
2-Chloro-1,3-butadiene	200	U	200	60	ug/L			12/15/11 03:45	200
Chloroethane	200	U	200	200	ug/L			12/15/11 03:45	200
Chloroform	**3500**		28	28	ug/L			12/15/11 03:45	200
Chloromethane	200	U	200	66	ug/L			12/15/11 03:45	200
3-Chloro-1-propene	200	U	200	40	ug/L			12/15/11 03:45	200
Chlorodibromomethane	200	U	200	20	ug/L			12/15/11 03:45	200
1,2-Dibromo-3-Chloropropane	200	U	200	88	ug/L			12/15/11 03:45	200
Ethylene Dibromide	200	U	200	50	ug/L			12/15/11 03:45	200
Dibromomethane	200	U	200	40	ug/L			12/15/11 03:45	200
trans-1,4-Dichloro-2-butene	400	U	400	100	ug/L			12/15/11 03:45	200
Dichlorodifluoromethane	200	U	200	50	ug/L			12/15/11 03:45	200
1,1-Dichloroethane	200	U	200	50	ug/L			12/15/11 03:45	200
1,2-Dichloroethane	200	U	200	20	ug/L			12/15/11 03:45	200
cis-1,2-Dichloroethene	**34**	**J**	200	30	ug/L			12/15/11 03:45	200
trans-1,2-Dichloroethene	200	U	200	40	ug/L			12/15/11 03:45	200
1,1-Dichloroethene	200	U	200	22	ug/L			12/15/11 03:45	200
1,2-Dichloropropane	200	U	200	26	ug/L			12/15/11 03:45	200
cis-1,3-Dichloropropene	200	U	200	22	ug/L			12/15/11 03:45	200
trans-1,3-Dichloropropene	200	U	200	42	ug/L			12/15/11 03:45	200
Ethylbenzene	**150**	**J**	200	22	ug/L			12/15/11 03:45	200
Ethyl methacrylate	200	U	200	50	ug/L			12/15/11 03:45	200
2-Hexanone	2000	U	2000	200	ug/L			12/15/11 03:45	200
Iodomethane	1000	U	1000	200	ug/L			12/15/11 03:45	200
Isobutyl alcohol	8000	U	8000	2200	ug/L			12/15/11 03:45	200
Methacrylonitrile	4000	U	4000	660	ug/L			12/15/11 03:45	200
Methylene Chloride	1000	U	1000	200	ug/L			12/15/11 03:45	200
Methyl methacrylate	200	U	200	96	ug/L			12/15/11 03:45	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	200	ug/L			12/15/11 03:45	200
Pentachloroethane	1000	U	1000	240	ug/L			12/15/11 03:45	200
Propionitrile	4000	U	4000	920	ug/L			12/15/11 03:45	200
Styrene	200	U	200	22	ug/L			12/15/11 03:45	200
1,1,1,2-Tetrachloroethane	200	U	200	66	ug/L			12/15/11 03:45	200
1,1,2,2-Tetrachloroethane	200	U	200	36	ug/L			12/15/11 03:45	200
Tetrachloroethene	200	U	200	30	ug/L			12/15/11 03:45	200
Toluene	**140**	**J**	200	66	ug/L			12/15/11 03:45	200
1,1,1-Trichloroethane	200	U	200	100	ug/L			12/15/11 03:45	200
1,1,2-Trichloroethane	200	U	200	26	ug/L			12/15/11 03:45	200
Trichloroethene	200	U	200	26	ug/L			12/15/11 03:45	200

Client Sample ID: ASH-MW17-120811
Date Collected: 12/08/11 15:54
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	200	U	200	50	ug/L			12/15/11 03:45	200
1,2,3-Trichloropropane	200	U	200	82	ug/L			12/15/11 03:45	200
Vinyl acetate	400	U	400	56	ug/L			12/15/11 03:45	200
Vinyl chloride	200	U	200	36	ug/L			12/15/11 03:45	200
Xylenes, Total	**320**	**J**	400	40	ug/L			12/15/11 03:45	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*12/15/11 03:45*	*200*
Dibromofluoromethane	*86*		*70 - 130*		*12/15/11 03:45*	*200*
Toluene-d8 (Surr)	*108*		*70 - 130*		*12/15/11 03:45*	*200*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	13000	U	13000	2500	ug/L			12/15/11 15:25	500
Acetonitrile	20000	U	20000	5000	ug/L			12/15/11 15:25	500
Acrolein	10000	U	10000	3700	ug/L			12/15/11 15:25	500
Acrylonitrile	10000	U	10000	3600	ug/L			12/15/11 15:25	500
Benzene	**3300**	**D**	500	130	ug/L			12/15/11 15:25	500
Dichlorobromomethane	130	U	130	130	ug/L			12/15/11 15:25	500
Bromoform	500	U	500	250	ug/L			12/15/11 15:25	500
Bromomethane	500	U	500	400	ug/L			12/15/11 15:25	500
2-Butanone (MEK)	5000	U	5000	500	ug/L			12/15/11 15:25	500
Carbon disulfide	1000	U	1000	300	ug/L			12/15/11 15:25	500
Carbon tetrachloride	**36000**	**D**	500	250	ug/L			12/15/11 15:25	500
Chlorobenzene	**1000**	**D B**	500	130	ug/L			12/15/11 15:25	500
2-Chloro-1,3-butadiene	500	U	500	150	ug/L			12/15/11 15:25	500
Chloroethane	500	U	500	500	ug/L			12/15/11 15:25	500
Chloroform	**3300**	**D**	70	70	ug/L			12/15/11 15:25	500
Chloromethane	500	U	500	170	ug/L			12/15/11 15:25	500
3-Chloro-1-propene	500	U	500	100	ug/L			12/15/11 15:25	500
Chlorodibromomethane	500	U	500	50	ug/L			12/15/11 15:25	500
1,2-Dibromo-3-Chloropropane	500	U	500	220	ug/L			12/15/11 15:25	500
Ethylene Dibromide	500	U	500	130	ug/L			12/15/11 15:25	500
Dibromomethane	500	U	500	100	ug/L			12/15/11 15:25	500
trans-1,4-Dichloro-2-butene	1000	U	1000	250	ug/L			12/15/11 15:25	500
Dichlorodifluoromethane	500	U	500	130	ug/L			12/15/11 15:25	500
1,1-Dichloroethane	500	U	500	130	ug/L			12/15/11 15:25	500
1,2-Dichloroethane	500	U	500	50	ug/L			12/15/11 15:25	500
cis-1,2-Dichloroethene	500	U	500	75	ug/L			12/15/11 15:25	500
trans-1,2-Dichloroethene	500	U	500	100	ug/L			12/15/11 15:25	500
1,1-Dichloroethene	500	U	500	55	ug/L			12/15/11 15:25	500
1,2-Dichloropropane	500	U	500	65	ug/L			12/15/11 15:25	500
cis-1,3-Dichloropropene	500	U	500	55	ug/L			12/15/11 15:25	500
trans-1,3-Dichloropropene	500	U	500	110	ug/L			12/15/11 15:25	500
Ethylbenzene	**160**	**J D**	500	55	ug/L			12/15/11 15:25	500
Ethyl methacrylate	500	U	500	130	ug/L			12/15/11 15:25	500
2-Hexanone	5000	U	5000	500	ug/L			12/15/11 15:25	500
Iodomethane	2500	U	2500	500	ug/L			12/15/11 15:25	500
Isobutyl alcohol	20000	U	20000	5500	ug/L			12/15/11 15:25	500
Methacrylonitrile	10000	U	10000	1700	ug/L			12/15/11 15:25	500
Methylene Chloride	2500	U	2500	500	ug/L			12/15/11 15:25	500

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW17-120811
Date Collected: 12/08/11 15:54
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methacrylate	500	U	500	240	ug/L			12/15/11 15:25	500
4-Methyl-2-pentanone (MIBK)	5000	U	5000	500	ug/L			12/15/11 15:25	500
Pentachloroethane	2500	U	2500	600	ug/L			12/15/11 15:25	500
Propionitrile	10000	U	10000	2300	ug/L			12/15/11 15:25	500
Styrene	500	U	500	55	ug/L			12/15/11 15:25	500
1,1,1,2-Tetrachloroethane	500	U	500	170	ug/L			12/15/11 15:25	500
1,1,2,2-Tetrachloroethane	500	U	500	90	ug/L			12/15/11 15:25	500
Tetrachloroethene	500	U	500	75	ug/L			12/15/11 15:25	500
Toluene	500	U	500	170	ug/L			12/15/11 15:25	500
1,1,1-Trichloroethane	500	U	500	250	ug/L			12/15/11 15:25	500
1,1,2-Trichloroethane	500	U	500	65	ug/L			12/15/11 15:25	500
Trichloroethene	500	U	500	65	ug/L			12/15/11 15:25	500
Trichlorofluoromethane	500	U	500	130	ug/L			12/15/11 15:25	500
1,2,3-Trichloropropane	500	U	500	210	ug/L			12/15/11 15:25	500
Vinyl acetate	1000	U	1000	140	ug/L			12/15/11 15:25	500
Vinyl chloride	500	U	500	90	ug/L			12/15/11 15:25	500
Xylenes, Total	**400**	**J D**	1000	100	ug/L			12/15/11 15:25	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*70 - 130*		*12/15/11 15:25*	*500*
Dibromofluoromethane	*91*		*70 - 130*		*12/15/11 15:25*	*500*
Toluene-d8 (Surr)	*110*		*70 - 130*		*12/15/11 15:25*	*500*

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-EB3-120811
Date Collected: 12/08/11 14:30
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/14/11 22:31	1
Acetonitrile	40	U	40	10	ug/L			12/14/11 22:31	1
Acrolein	20	U	20	7.4	ug/L			12/14/11 22:31	1
Acrylonitrile	20	U	20	7.2	ug/L			12/14/11 22:31	1
Benzene	1.0	U	1.0	0.25	ug/L			12/14/11 22:31	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/14/11 22:31	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/14/11 22:31	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/14/11 22:31	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/14/11 22:31	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/14/11 22:31	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/14/11 22:31	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/14/11 22:31	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/14/11 22:31	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/14/11 22:31	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/14/11 22:31	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/14/11 22:31	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/14/11 22:31	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/14/11 22:31	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/14/11 22:31	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/14/11 22:31	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/14/11 22:31	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/14/11 22:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 22:31	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/14/11 22:31	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/14/11 22:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 22:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/14/11 22:31	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/14/11 22:31	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/14/11 22:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/14/11 22:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/14/11 22:31	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/14/11 22:31	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/14/11 22:31	1
2-Hexanone	10	U	10	1.0	ug/L			12/14/11 22:31	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/14/11 22:31	1
Isobutyl alcohol	40	U	40	11	ug/L			12/14/11 22:31	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/14/11 22:31	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/14/11 22:31	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/14/11 22:31	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/14/11 22:31	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/14/11 22:31	1
Propionitrile	20	U	20	4.6	ug/L			12/14/11 22:31	1
Styrene	1.0	U	1.0	0.11	ug/L			12/14/11 22:31	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/14/11 22:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/14/11 22:31	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 22:31	1
Toluene	1.0	U	1.0	0.33	ug/L			12/14/11 22:31	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/14/11 22:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/14/11 22:31	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/14/11 22:31	1

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-EB3-120811
Date Collected: 12/08/11 14:30
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 22:31	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/14/11 22:31	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/14/11 22:31	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/14/11 22:31	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/14/11 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*12/14/11 22:31*	*1*
Dibromofluoromethane	*87*		*70 - 130*		*12/14/11 22:31*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*12/14/11 22:31*	*1*

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW21-120811
Date Collected: 12/08/11 16:14
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**340**	**J**	1300	250	ug/L			12/15/11 04:07	50
Acetonitrile	2000	U	2000	500	ug/L			12/15/11 04:07	50
Acrolein	1000	U	1000	370	ug/L			12/15/11 04:07	50
Acrylonitrile	1000	U	1000	360	ug/L			12/15/11 04:07	50
Benzene	**5200**		50	13	ug/L			12/15/11 04:07	50
Dichlorobromomethane	13	U	13	13	ug/L			12/15/11 04:07	50
Bromoform	50	U	50	25	ug/L			12/15/11 04:07	50
Bromomethane	50	U	50	40	ug/L			12/15/11 04:07	50
2-Butanone (MEK)	500	U	500	50	ug/L			12/15/11 04:07	50
Carbon disulfide	100	U	100	30	ug/L			12/15/11 04:07	50
Carbon tetrachloride	50	U	50	25	ug/L			12/15/11 04:07	50
Chlorobenzene	**220**		50	13	ug/L			12/15/11 04:07	50
2-Chloro-1,3-butadiene	50	U	50	15	ug/L			12/15/11 04:07	50
Chloroethane	50	U	50	50	ug/L			12/15/11 04:07	50
Chloroform	**5100**		7.0	7.0	ug/L			12/15/11 04:07	50
Chloromethane	50	U	50	17	ug/L			12/15/11 04:07	50
3-Chloro-1-propene	50	U	50	10	ug/L			12/15/11 04:07	50
Chlorodibromomethane	50	U	50	5.0	ug/L			12/15/11 04:07	50
1,2-Dibromo-3-Chloropropane	50	U	50	22	ug/L			12/15/11 04:07	50
Ethylene Dibromide	50	U	50	13	ug/L			12/15/11 04:07	50
Dibromomethane	50	U	50	10	ug/L			12/15/11 04:07	50
trans-1,4-Dichloro-2-butene	100	U	100	25	ug/L			12/15/11 04:07	50
Dichlorodifluoromethane	50	U	50	13	ug/L			12/15/11 04:07	50
1,1-Dichloroethane	50	U	50	13	ug/L			12/15/11 04:07	50
1,2-Dichloroethane	50	U	50	5.0	ug/L			12/15/11 04:07	50
cis-1,2-Dichloroethene	50	U	50	7.5	ug/L			12/15/11 04:07	50
trans-1,2-Dichloroethene	50	U	50	10	ug/L			12/15/11 04:07	50
1,1-Dichloroethene	**16**	**J**	50	5.5	ug/L			12/15/11 04:07	50
1,2-Dichloropropane	50	U	50	6.5	ug/L			12/15/11 04:07	50
cis-1,3-Dichloropropene	50	U	50	5.5	ug/L			12/15/11 04:07	50
trans-1,3-Dichloropropene	50	U	50	11	ug/L			12/15/11 04:07	50
Ethylbenzene	50	U	50	5.5	ug/L			12/15/11 04:07	50
Ethyl methacrylate	50	U	50	13	ug/L			12/15/11 04:07	50
2-Hexanone	500	U	500	50	ug/L			12/15/11 04:07	50
Iodomethane	250	U	250	50	ug/L			12/15/11 04:07	50
Isobutyl alcohol	2000	U	2000	550	ug/L			12/15/11 04:07	50
Methacrylonitrile	1000	U	1000	170	ug/L			12/15/11 04:07	50
Methylene Chloride	**100**	**J**	250	50	ug/L			12/15/11 04:07	50
Methyl methacrylate	50	U	50	24	ug/L			12/15/11 04:07	50
4-Methyl-2-pentanone (MIBK)	**570**		500	50	ug/L			12/15/11 04:07	50
Pentachloroethane	250	U	250	60	ug/L			12/15/11 04:07	50
Propionitrile	1000	U	1000	230	ug/L			12/15/11 04:07	50
Styrene	50	U	50	5.5	ug/L			12/15/11 04:07	50
1,1,1,2-Tetrachloroethane	50	U	50	17	ug/L			12/15/11 04:07	50
1,1,2,2-Tetrachloroethane	50	U	50	9.0	ug/L			12/15/11 04:07	50
Tetrachloroethene	**8.0**	**J**	50	7.5	ug/L			12/15/11 04:07	50
Toluene	**3300**		50	17	ug/L			12/15/11 04:07	50
1,1,1-Trichloroethane	50	U	50	25	ug/L			12/15/11 04:07	50
1,1,2-Trichloroethane	50	U	50	6.5	ug/L			12/15/11 04:07	50
Trichloroethene	50	U	50	6.5	ug/L			12/15/11 04:07	50

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW21-120811
Date Collected: 12/08/11 16:14
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	50	U	50	13	ug/L			12/15/11 04:07	50
1,2,3-Trichloropropane	50	U	50	21	ug/L			12/15/11 04:07	50
Vinyl acetate	100	U	100	14	ug/L			12/15/11 04:07	50
Vinyl chloride	50	U	50	9.0	ug/L			12/15/11 04:07	50
Xylenes, Total	100	U	100	10	ug/L			12/15/11 04:07	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*12/15/11 04:07*	*50*
Dibromofluoromethane	*82*		*70 - 130*		*12/15/11 04:07*	*50*
Toluene-d8 (Surr)	*102*		*70 - 130*		*12/15/11 04:07*	*50*

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: Trip Blank Lot# 112811
Date Collected: 12/08/11 00:00
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/14/11 22:08	1
Acetonitrile	40	U	40	10	ug/L			12/14/11 22:08	1
Acrolein	20	U	20	7.4	ug/L			12/14/11 22:08	1
Acrylonitrile	20	U	20	7.2	ug/L			12/14/11 22:08	1
Benzene	1.0	U	1.0	0.25	ug/L			12/14/11 22:08	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/14/11 22:08	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/14/11 22:08	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/14/11 22:08	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/14/11 22:08	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/14/11 22:08	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/14/11 22:08	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/14/11 22:08	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/14/11 22:08	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/14/11 22:08	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/14/11 22:08	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/14/11 22:08	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/14/11 22:08	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/14/11 22:08	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/14/11 22:08	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/14/11 22:08	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/14/11 22:08	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/14/11 22:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 22:08	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/14/11 22:08	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/14/11 22:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 22:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/14/11 22:08	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/14/11 22:08	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/14/11 22:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/14/11 22:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/14/11 22:08	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/14/11 22:08	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/14/11 22:08	1
2-Hexanone	10	U	10	1.0	ug/L			12/14/11 22:08	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/14/11 22:08	1
Isobutyl alcohol	40	U	40	11	ug/L			12/14/11 22:08	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/14/11 22:08	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/14/11 22:08	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/14/11 22:08	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/14/11 22:08	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/14/11 22:08	1
Propionitrile	20	U	20	4.6	ug/L			12/14/11 22:08	1
Styrene	1.0	U	1.0	0.11	ug/L			12/14/11 22:08	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/14/11 22:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/14/11 22:08	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 22:08	1
Toluene	1.0	U	1.0	0.33	ug/L			12/14/11 22:08	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/14/11 22:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/14/11 22:08	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/14/11 22:08	1

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: Trip Blank Lot# 112811
Date Collected: 12/08/11 00:00
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 22:08	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/14/11 22:08	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/14/11 22:08	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/14/11 22:08	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/14/11 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*70 - 130*		*12/14/11 22:08*	*1*
Dibromofluoromethane	*89*		*70 - 130*		*12/14/11 22:08*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*12/14/11 22:08*	*1*

Surrogate Summary

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
		BFB	DBFM	TOL						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)						
680-75145-1	ASH-MW14-120811	97	87	105						
680-75145-2	ASH-MW20-120811	99	89	105						
680-75145-3	ASH-MW07-120811	99	88	102						
680-75145-4	ASH-MW18-120811	97	90	103						
680-75145-5	ASH-MW19-120811	101	83	103						
680-75145-6	ASH-MW09-120811	106	89	104						
680-75145-7	ASH-DUPB-120811	106	95	104						
680-75145-8	ASH-MW22-120811	89	91	102						
680-75145-8 MS	ASH-MW22-120811	109	101	101						
680-75145-8 MSD	ASH-MW22-120811	107	99	103						
680-75145-9	ASH-MW13-120811	103	99	108						
680-75145-10	ASH-RS4-120811	96	88	105						
680-75145-11	ASH-MW17-120811	97	86	108						
680-75145-11 - DL	ASH-MW17-120811	100	91	110						
680-75145-12	ASH-EB3-120811	97	87	105						
680-75145-13	ASH-MW21-120811	92	82	102						
680-75145-14	Trip Blank Lot# 112811	95	89	105						
LCS 680-223726/4	Lab Control Sample	104	95	103						
LCS 680-223802/4	Lab Control Sample	108	96	99						
LCSD 680-223726/5	Lab Control Sample Dup	109	98	104						
LCSD 680-223802/5	Lab Control Sample Dup	110	105	105						
MB 680-223726/7	Method Blank	97	94	107						
MB 680-223802/7	Method Blank	104	96	106						

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-223726/7
Matrix: Water
Analysis Batch: 223726

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/14/11 21:46	1
Acetonitrile	40	U	40	10	ug/L			12/14/11 21:46	1
Acrolein	20	U	20	7.4	ug/L			12/14/11 21:46	1
Acrylonitrile	20	U	20	7.2	ug/L			12/14/11 21:46	1
Benzene	1.0	U	1.0	0.25	ug/L			12/14/11 21:46	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/14/11 21:46	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/14/11 21:46	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/14/11 21:46	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/14/11 21:46	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/14/11 21:46	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/14/11 21:46	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/14/11 21:46	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/14/11 21:46	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/14/11 21:46	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/14/11 21:46	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/14/11 21:46	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/14/11 21:46	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/14/11 21:46	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/14/11 21:46	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/14/11 21:46	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/14/11 21:46	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/14/11 21:46	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 21:46	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/14/11 21:46	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/14/11 21:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 21:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/14/11 21:46	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/14/11 21:46	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/14/11 21:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/14/11 21:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/14/11 21:46	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/14/11 21:46	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/14/11 21:46	1
2-Hexanone	10	U	10	1.0	ug/L			12/14/11 21:46	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/14/11 21:46	1
Isobutyl alcohol	40	U	40	11	ug/L			12/14/11 21:46	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/14/11 21:46	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/14/11 21:46	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/14/11 21:46	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/14/11 21:46	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/14/11 21:46	1
Propionitrile	20	U	20	4.6	ug/L			12/14/11 21:46	1
Styrene	1.0	U	1.0	0.11	ug/L			12/14/11 21:46	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/14/11 21:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/14/11 21:46	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/14/11 21:46	1
Toluene	1.0	U	1.0	0.33	ug/L			12/14/11 21:46	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/14/11 21:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/14/11 21:46	1

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

Lab Sample ID: MB 680-223726/7
Matrix: Water
Analysis Batch: 223726

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/14/11 21:46	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/14/11 21:46	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/14/11 21:46	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/14/11 21:46	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/14/11 21:46	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/14/11 21:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*70 - 130*		*12/14/11 21:46*	*1*
Dibromofluoromethane	*94*		*70 - 130*		*12/14/11 21:46*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*12/14/11 21:46*	*1*

Lab Sample ID: LCS 680-223726/4
Matrix: Water
Analysis Batch: 223726

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	92.1		ug/L		92	26 - 180
Benzene	50.0	52.3		ug/L		105	70 - 130
Dichlorobromomethane	50.0	54.4		ug/L		109	70 - 130
Bromoform	50.0	53.1		ug/L		106	70 - 130
Bromomethane	50.0	39.2		ug/L		78	23 - 165
2-Butanone (MEK)	100	104		ug/L		104	49 - 172
Carbon disulfide	50.0	45.9		ug/L		92	54 - 132
Carbon tetrachloride	50.0	52.2		ug/L		104	70 - 130
Chlorobenzene	50.0	50.9		ug/L		102	70 - 130
Chloroethane	50.0	50.0		ug/L		100	56 - 152
Chloroform	50.0	49.7		ug/L		99	70 - 130
Chloromethane	50.0	37.5		ug/L		75	70 - 130
Chlorodibromomethane	50.0	44.5		ug/L		89	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	42.8		ug/L		86	70 - 130
Ethylene Dibromide	50.0	55.1		ug/L		110	70 - 130
Dibromomethane	50.0	52.3		ug/L		105	70 - 130
Dichlorodifluoromethane	50.0	38.0		ug/L		76	44 - 146
1,1-Dichloroethane	50.0	49.1		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	54.7		ug/L		109	70 - 130
cis-1,2-Dichloroethene	50.0	44.7		ug/L		89	70 - 130
trans-1,2-Dichloroethene	50.0	43.2		ug/L		86	70 - 130
1,1-Dichloroethene	50.0	41.1		ug/L		82	66 - 131
1,2-Dichloropropane	50.0	53.8		ug/L		108	70 - 130
cis-1,3-Dichloropropene	50.0	54.5		ug/L		109	70 - 130
trans-1,3-Dichloropropene	50.0	58.4		ug/L		117	70 - 130
Ethylbenzene	50.0	52.4		ug/L		105	70 - 130
2-Hexanone	100	121		ug/L		121	42 - 185
Methylene Chloride	50.0	44.3		ug/L		89	67 - 130
4-Methyl-2-pentanone (MIBK)	100	116		ug/L		116	70 - 130
Styrene	50.0	55.1		ug/L		110	70 - 130
1,1,1,2-Tetrachloroethane	50.0	46.1		ug/L		92	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.6		ug/L		107	70 - 130

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

Lab Sample ID: LCS 680-223726/4
Matrix: Water
Analysis Batch: 223726

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Tetrachloroethene			50.0	47.1		ug/L		94	70 - 130		
Toluene			50.0	53.5		ug/L		107	70 - 130		
1,1,1-Trichloroethane			50.0	51.5		ug/L		103	70 - 130		
1,1,2-Trichloroethane			50.0	54.6		ug/L		109	70 - 130		
Trichloroethene			50.0	49.3		ug/L		99	70 - 130		
Trichlorofluoromethane			50.0	49.6		ug/L		99	55 - 156		
1,2,3-Trichloropropane			50.0	52.3		ug/L		105	70 - 130		
Vinyl acetate			100	111		ug/L		111	60 - 176		
Vinyl chloride			50.0	42.5		ug/L		85	67 - 134		
Xylenes, Total			150	156		ug/L		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*70 - 130*
Dibromofluoromethane	*95*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 680-223726/5
Matrix: Water
Analysis Batch: 223726

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
Acetone			100	97.9		ug/L		98	26 - 180	6	50
Benzene			50.0	51.8		ug/L		104	70 - 130	1	30
Dichlorobromomethane			50.0	55.0		ug/L		110	70 - 130	1	30
Bromoform			50.0	55.2		ug/L		110	70 - 130	4	30
Bromomethane			50.0	57.4		ug/L		115	23 - 165	38	50
2-Butanone (MEK)			100	112		ug/L		112	49 - 172	7	30
Carbon disulfide			50.0	47.7		ug/L		95	54 - 132	4	30
Carbon tetrachloride			50.0	51.9		ug/L		104	70 - 130	1	30
Chlorobenzene			50.0	52.6		ug/L		105	70 - 130	3	30
Chloroethane			50.0	50.2		ug/L		100	56 - 152	0	40
Chloroform			50.0	50.6		ug/L		101	70 - 130	2	30
Chloromethane			50.0	38.4		ug/L		77	70 - 130	2	30
Chlorodibromomethane			50.0	46.1		ug/L		92	70 - 130	3	50
1,2-Dibromo-3-Chloropropane			50.0	45.0		ug/L		90	70 - 130	5	50
Ethylene Dibromide			50.0	55.8		ug/L		112	70 - 130	1	30
Dibromomethane			50.0	52.9		ug/L		106	70 - 130	1	30
Dichlorodifluoromethane			50.0	39.1		ug/L		78	44 - 146	3	50
1,1-Dichloroethane			50.0	49.6		ug/L		99	70 - 130	1	30
1,2-Dichloroethane			50.0	54.2		ug/L		108	70 - 130	1	30
cis-1,2-Dichloroethene			50.0	46.9		ug/L		94	70 - 130	5	30
trans-1,2-Dichloroethene			50.0	45.1		ug/L		90	70 - 130	4	30
1,1-Dichloroethene			50.0	42.3		ug/L		85	66 - 131	3	30
1,2-Dichloropropane			50.0	53.5		ug/L		107	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	54.9		ug/L		110	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	59.4		ug/L		119	70 - 130	2	50
Ethylbenzene			50.0	53.8		ug/L		108	70 - 130	3	30
2-Hexanone			100	125		ug/L		125	42 - 185	3	30
Methylene Chloride			50.0	46.5		ug/L		93	67 - 130	5	30

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

Lab Sample ID: LCSD 680-223726/5
Matrix: Water
Analysis Batch: 223726

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 (MIBK)			100	118		ug/L		118	70 - 130	1	30
Styrene			50.0	54.9		ug/L		110	70 - 130	0	30
1,1,1,2-Tetrachloroethane			50.0	47.1		ug/L		94	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	56.1		ug/L		112	70 - 130	5	30
Tetrachloroethene			50.0	48.3		ug/L		97	70 - 130	2	30
Toluene			50.0	53.2		ug/L		106	70 - 130	1	30
1,1,1-Trichloroethane			50.0	51.5		ug/L		103	70 - 130	0	30
1,1,2-Trichloroethane			50.0	54.2		ug/L		108	70 - 130	1	30
Trichloroethene			50.0	50.1		ug/L		100	70 - 130	2	30
Trichlorofluoromethane			50.0	50.4		ug/L		101	55 - 156	2	30
1,2,3-Trichloropropane			50.0	53.8		ug/L		108	70 - 130	3	30
Vinyl acetate			100	115		ug/L		115	60 - 176	4	30
Vinyl chloride			50.0	43.3		ug/L		87	67 - 134	2	30
Xylenes, Total			150	161		ug/L		107	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*70 - 130*
Dibromofluoromethane	*98*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: 680-75145-8 MS
Matrix: Water
Analysis Batch: 223726

Client Sample ID: ASH-MW22-120811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	15	J	100	105		ug/L		90	26 - 180
Benzene	8.1		50.0	60.8		ug/L		105	70 - 130
Dichlorobromomethane	0.25	U	50.0	51.5		ug/L		103	70 - 130
Bromoform	1.0	U	50.0	52.7		ug/L		105	70 - 130
Bromomethane	1.0	U	50.0	44.0		ug/L		88	23 - 165
2-Butanone (MEK)	10	U	100	103		ug/L		103	49 - 172
Carbon disulfide	2.0	U	50.0	49.6		ug/L		99	54 - 132
Carbon tetrachloride	1.0	U	50.0	56.1		ug/L		112	70 - 130
Chlorobenzene	12		50.0	62.8		ug/L		102	70 - 130
Chloroethane	1.0	U	50.0	55.0		ug/L		110	56 - 152
Chloroform	1.1		50.0	51.4		ug/L		101	70 - 130
Chloromethane	1.0	U	50.0	38.8		ug/L		78	70 - 130
Chlorodibromomethane	1.0	U	50.0	42.9		ug/L		86	70 - 130
1,2-Dibromo-3-Chloropropane	1.0	U	50.0	45.6		ug/L		91	70 - 130
Ethylene Dibromide	1.0	U	50.0	50.2		ug/L		100	70 - 130
Dibromomethane	1.0	U	50.0	50.5		ug/L		101	70 - 130
Dichlorodifluoromethane	1.0	U	50.0	38.9		ug/L		78	44 - 146
1,1-Dichloroethane	1.0	U	50.0	52.9		ug/L		106	70 - 130
1,2-Dichloroethane	1.0	U	50.0	52.4		ug/L		105	70 - 130
cis-1,2-Dichloroethene	1.0	U	50.0	48.4		ug/L		97	70 - 130
trans-1,2-Dichloroethene	1.0	U	50.0	47.7		ug/L		95	70 - 130
1,1-Dichloroethene	1.0	U	50.0	45.5		ug/L		91	66 - 131
1,2-Dichloropropane	1.0	U	50.0	51.8		ug/L		104	70 - 130
cis-1,3-Dichloropropene	1.0	U	50.0	49.9		ug/L		100	70 - 130

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

Lab Sample ID: 680-75145-8 MS
Matrix: Water
Analysis Batch: 223726

Client Sample ID: ASH-MW22-120811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	1.0	U	50.0	52.3		ug/L		105	70 - 130
Ethylbenzene	0.40	J	50.0	54.6		ug/L		108	70 - 130
2-Hexanone	10	U	100	105		ug/L		105	42 - 185
Methylene Chloride	5.0	U	50.0	46.5		ug/L		93	67 - 130
4-Methyl-2-pentanone (MIBK)	30		100	142		ug/L		112	70 - 130
Styrene	0.19	J	50.0	56.5		ug/L		113	70 - 130
1,1,1,2-Tetrachloroethane	1.0	U	50.0	45.1		ug/L		90	70 - 130
1,1,2,2-Tetrachloroethane	1.0	U	50.0	54.4		ug/L		109	70 - 130
Tetrachloroethene	1.0	U	50.0	46.5		ug/L		93	70 - 130
Toluene	1.0		50.0	53.2		ug/L		104	70 - 130
1,1,1-Trichloroethane	1.0	U	50.0	55.8		ug/L		112	70 - 130
1,1,2-Trichloroethane	1.0	U	50.0	49.7		ug/L		99	70 - 130
Trichloroethene	1.0	U	50.0	51.7		ug/L		103	70 - 130
Trichlorofluoromethane	1.0	U	50.0	56.4		ug/L		113	55 - 156
1,2,3-Trichloropropane	1.0	U	50.0	51.5		ug/L		103	70 - 130
Vinyl acetate	2.0	U	100	103		ug/L		103	60 - 176
Vinyl chloride	1.0	U	50.0	44.9		ug/L		90	67 - 134
Xylenes, Total	2.0	U	150	161		ug/L		107	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*70 - 130*
Dibromofluoromethane	*101*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: 680-75145-8 MSD
Matrix: Water
Analysis Batch: 223726

Client Sample ID: ASH-MW22-120811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	15	J	100	104		ug/L		90	26 - 180	0	50
Benzene	8.1		50.0	60.2		ug/L		104	70 - 130	1	30
Dichlorobromomethane	0.25	U	50.0	52.1		ug/L		104	70 - 130	1	30
Bromoform	1.0	U	50.0	54.1		ug/L		108	70 - 130	3	30
Bromomethane	1.0	U	50.0	63.8		ug/L		128	23 - 165	37	50
2-Butanone (MEK)	10	U	100	103		ug/L		103	49 - 172	0	30
Carbon disulfide	2.0	U	50.0	50.9		ug/L		102	54 - 132	3	30
Carbon tetrachloride	1.0	U	50.0	53.5		ug/L		107	70 - 130	5	30
Chlorobenzene	12		50.0	63.7		ug/L		104	70 - 130	1	30
Chloroethane	1.0	U	50.0	57.3		ug/L		115	56 - 152	4	40
Chloroform	1.1		50.0	53.7		ug/L		105	70 - 130	4	30
Chloromethane	1.0	U	50.0	41.1		ug/L		82	70 - 130	6	30
Chlorodibromomethane	1.0	U	50.0	43.1		ug/L		86	70 - 130	0	50
1,2-Dibromo-3-Chloropropane	1.0	U	50.0	48.8		ug/L		98	70 - 130	7	50
Ethylene Dibromide	1.0	U	50.0	51.2		ug/L		102	70 - 130	2	30
Dibromomethane	1.0	U	50.0	49.5		ug/L		99	70 - 130	2	30
Dichlorodifluoromethane	1.0	U	50.0	43.0		ug/L		86	44 - 146	10	50
1,1-Dichloroethane	1.0	U	50.0	52.1		ug/L		104	70 - 130	1	30
1,2-Dichloroethane	1.0	U	50.0	51.3		ug/L		103	70 - 130	2	30
cis-1,2-Dichloroethene	1.0	U	50.0	49.1		ug/L		98	70 - 130	1	30

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

Lab Sample ID: 680-75145-8 MSD
Matrix: Water
Analysis Batch: 223726

Client Sample ID: ASH-MW22-120811
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	1.0	U	50.0	47.5		ug/L		95	70 - 130	1	30
1,1-Dichloroethene	1.0	U	50.0	45.1		ug/L		90	66 - 131	1	30
1,2-Dichloropropane	1.0	U	50.0	50.2		ug/L		100	70 - 130	3	30
cis-1,3-Dichloropropene	1.0	U	50.0	50.9		ug/L		102	70 - 130	2	30
trans-1,3-Dichloropropene	1.0	U	50.0	53.2		ug/L		106	70 - 130	2	50
Ethylbenzene	0.40	J	50.0	54.7		ug/L		109	70 - 130	0	30
2-Hexanone	10	U	100	105		ug/L		105	42 - 185	1	30
Methylene Chloride	5.0	U	50.0	46.2		ug/L		92	67 - 130	1	30
4-Methyl-2-pentanone (MIBK)	30		100	144		ug/L		113	70 - 130	1	30
Styrene	0.19	J	50.0	56.8		ug/L		113	70 - 130	0	30
1,1,1,2-Tetrachloroethane	1.0	U	50.0	46.6		ug/L		93	70 - 130	3	30
1,1,2,2-Tetrachloroethane	1.0	U	50.0	53.5		ug/L		107	70 - 130	2	30
Tetrachloroethene	1.0	U	50.0	46.8		ug/L		94	70 - 130	1	30
Toluene	1.0		50.0	54.2		ug/L		106	70 - 130	2	30
1,1,1-Trichloroethane	1.0	U	50.0	52.9		ug/L		106	70 - 130	5	30
1,1,2-Trichloroethane	1.0	U	50.0	49.2		ug/L		98	70 - 130	1	30
Trichloroethene	1.0	U	50.0	49.2		ug/L		98	70 - 130	5	30
Trichlorofluoromethane	1.0	U	50.0	57.7		ug/L		115	55 - 156	2	30
1,2,3-Trichloropropane	1.0	U	50.0	50.6		ug/L		101	70 - 130	2	30
Vinyl acetate	2.0	U	100	111		ug/L		111	60 - 176	7	30
Vinyl chloride	1.0	U	50.0	48.3		ug/L		97	67 - 134	7	30
Xylenes, Total	2.0	U	150	163		ug/L		108	70 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*70 - 130*
Dibromofluoromethane	*99*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 680-223802/7
Matrix: Water
Analysis Batch: 223802

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/15/11 12:19	1
Acetonitrile	40	U	40	10	ug/L			12/15/11 12:19	1
Acrolein	20	U	20	7.4	ug/L			12/15/11 12:19	1
Acrylonitrile	20	U	20	7.2	ug/L			12/15/11 12:19	1
Benzene	1.0	U	1.0	0.25	ug/L			12/15/11 12:19	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/15/11 12:19	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/15/11 12:19	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/15/11 12:19	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/15/11 12:19	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/15/11 12:19	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/15/11 12:19	1
Chlorobenzene	0.991	J	1.0	0.25	ug/L			12/15/11 12:19	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/15/11 12:19	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/15/11 12:19	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/15/11 12:19	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/15/11 12:19	1

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

Lab Sample ID: MB 680-223802/7
Matrix: Water
Analysis Batch: 223802

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/15/11 12:19	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/15/11 12:19	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/15/11 12:19	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/15/11 12:19	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/15/11 12:19	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/15/11 12:19	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 12:19	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/15/11 12:19	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/15/11 12:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 12:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/15/11 12:19	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/15/11 12:19	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/15/11 12:19	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/15/11 12:19	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/15/11 12:19	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/15/11 12:19	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/15/11 12:19	1
2-Hexanone	10	U	10	1.0	ug/L			12/15/11 12:19	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/15/11 12:19	1
Isobutyl alcohol	40	U	40	11	ug/L			12/15/11 12:19	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/15/11 12:19	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/15/11 12:19	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/15/11 12:19	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/15/11 12:19	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/15/11 12:19	1
Propionitrile	20	U	20	4.6	ug/L			12/15/11 12:19	1
Styrene	1.0	U	1.0	0.11	ug/L			12/15/11 12:19	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/15/11 12:19	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/15/11 12:19	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 12:19	1
Toluene	1.0	U	1.0	0.33	ug/L			12/15/11 12:19	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/15/11 12:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/15/11 12:19	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/15/11 12:19	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 12:19	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/15/11 12:19	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/15/11 12:19	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/15/11 12:19	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/15/11 12:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*70 - 130*		*12/15/11 12:19*	*1*
Dibromofluoromethane	*96*		*70 - 130*		*12/15/11 12:19*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*12/15/11 12:19*	*1*

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

Lab Sample ID: LCS 680-223802/4
Matrix: Water
Analysis Batch: 223802

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	86.7		ug/L		87	26 - 180
Benzene	50.0	48.0		ug/L		96	70 - 130
Dichlorobromomethane	50.0	52.5		ug/L		105	70 - 130
Bromoform	50.0	48.8		ug/L		98	70 - 130
Bromomethane	50.0	50.3		ug/L		101	23 - 165
2-Butanone (MEK)	100	95.0		ug/L		95	49 - 172
Carbon disulfide	50.0	43.9		ug/L		88	54 - 132
Carbon tetrachloride	50.0	48.4		ug/L		97	70 - 130
Chlorobenzene	50.0	51.4		ug/L		103	70 - 130
Chloroethane	50.0	52.8		ug/L		106	56 - 152
Chloroform	50.0	48.4		ug/L		97	70 - 130
Chloromethane	50.0	37.9		ug/L		76	70 - 130
Chlorodibromomethane	50.0	54.2		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.5		ug/L		97	70 - 130
Ethylene Dibromide	50.0	50.7		ug/L		101	70 - 130
Dibromomethane	50.0	49.1		ug/L		98	70 - 130
Dichlorodifluoromethane	50.0	37.5		ug/L		75	44 - 146
1,1-Dichloroethane	50.0	46.1		ug/L		92	70 - 130
1,2-Dichloroethane	50.0	49.9		ug/L		100	70 - 130
cis-1,2-Dichloroethene	50.0	45.8		ug/L		92	70 - 130
trans-1,2-Dichloroethene	50.0	42.3		ug/L		85	70 - 130
1,1-Dichloroethene	50.0	42.2		ug/L		84	66 - 131
1,2-Dichloropropane	50.0	49.3		ug/L		99	70 - 130
cis-1,3-Dichloropropene	50.0	51.8		ug/L		104	70 - 130
trans-1,3-Dichloropropene	50.0	53.1		ug/L		106	70 - 130
Ethylbenzene	50.0	50.6		ug/L		101	70 - 130
2-Hexanone	100	108		ug/L		108	42 - 185
Methylene Chloride	50.0	43.8		ug/L		88	67 - 130
4-Methyl-2-pentanone (MIBK)	100	107		ug/L		107	70 - 130
Styrene	50.0	52.9		ug/L		106	70 - 130
1,1,1,2-Tetrachloroethane	50.0	55.9		ug/L		112	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.1		ug/L		104	70 - 130
Tetrachloroethene	50.0	47.9		ug/L		96	70 - 130
Toluene	50.0	50.0		ug/L		100	70 - 130
1,1,1-Trichloroethane	50.0	48.8		ug/L		98	70 - 130
1,1,2-Trichloroethane	50.0	50.3		ug/L		101	70 - 130
Trichloroethene	50.0	48.0		ug/L		96	70 - 130
Trichlorofluoromethane	50.0	44.8		ug/L		90	55 - 156
1,2,3-Trichloropropane	50.0	51.2		ug/L		102	70 - 130
Vinyl acetate	100	97.2		ug/L		97	60 - 176
Vinyl chloride	50.0	43.5		ug/L		87	67 - 134
Xylenes, Total	150	155		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*70 - 130*
Dibromofluoromethane	*96*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

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

Lab Sample ID: LCSD 680-223802/5
Matrix: Water
Analysis Batch: 223802

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
Acetone	100	94.5		ug/L		95	26 - 180	9	50
Benzene	50.0	51.1		ug/L		102	70 - 130	6	30
Dichlorobromomethane	50.0	53.3		ug/L		107	70 - 130	1	30
Bromoform	50.0	49.6		ug/L		99	70 - 130	2	30
Bromomethane	50.0	55.6		ug/L		111	23 - 165	10	50
2-Butanone (MEK)	100	102		ug/L		102	49 - 172	7	30
Carbon disulfide	50.0	47.5		ug/L		95	54 - 132	8	30
Carbon tetrachloride	50.0	52.4		ug/L		105	70 - 130	8	30
Chlorobenzene	50.0	55.0		ug/L		110	70 - 130	7	30
Chloroethane	50.0	54.8		ug/L		110	56 - 152	4	40
Chloroform	50.0	52.9		ug/L		106	70 - 130	9	30
Chloromethane	50.0	38.7		ug/L		77	70 - 130	2	30
Chlorodibromomethane	50.0	59.1		ug/L		118	70 - 130	9	50
1,2-Dibromo-3-Chloropropane	50.0	49.4		ug/L		99	70 - 130	2	50
Ethylene Dibromide	50.0	52.8		ug/L		106	70 - 130	4	30
Dibromomethane	50.0	51.5		ug/L		103	70 - 130	5	30
Dichlorodifluoromethane	50.0	37.4		ug/L		75	44 - 146	0	50
1,1-Dichloroethane	50.0	50.0		ug/L		100	70 - 130	8	30
1,2-Dichloroethane	50.0	52.5		ug/L		105	70 - 130	5	30
cis-1,2-Dichloroethene	50.0	51.0		ug/L		102	70 - 130	11	30
trans-1,2-Dichloroethene	50.0	46.3		ug/L		93	70 - 130	9	30
1,1-Dichloroethene	50.0	44.5		ug/L		89	66 - 131	6	30
1,2-Dichloropropane	50.0	52.1		ug/L		104	70 - 130	6	30
cis-1,3-Dichloropropene	50.0	54.5		ug/L		109	70 - 130	5	30
trans-1,3-Dichloropropene	50.0	53.9		ug/L		108	70 - 130	1	50
Ethylbenzene	50.0	54.2		ug/L		108	70 - 130	7	30
2-Hexanone	100	114		ug/L		114	42 - 185	6	30
Methylene Chloride	50.0	46.6		ug/L		93	67 - 130	6	30
4-Methyl-2-pentanone (MIBK)	100	114		ug/L		114	70 - 130	6	30
Styrene	50.0	54.2		ug/L		108	70 - 130	3	30
1,1,1,2-Tetrachloroethane	50.0	58.3		ug/L		117	70 - 130	4	30
1,1,2,2-Tetrachloroethane	50.0	53.1		ug/L		106	70 - 130	2	30
Tetrachloroethene	50.0	51.6		ug/L		103	70 - 130	7	30
Toluene	50.0	52.4		ug/L		105	70 - 130	5	30
1,1,1-Trichloroethane	50.0	53.0		ug/L		106	70 - 130	8	30
1,1,2-Trichloroethane	50.0	52.8		ug/L		106	70 - 130	5	30
Trichloroethene	50.0	52.0		ug/L		104	70 - 130	8	30
Trichlorofluoromethane	50.0	46.8		ug/L		94	55 - 156	4	30
1,2,3-Trichloropropane	50.0	52.2		ug/L		104	70 - 130	2	30
Vinyl acetate	100	106		ug/L		106	60 - 176	9	30
Vinyl chloride	50.0	45.0		ug/L		90	67 - 134	3	30
Xylenes, Total	150	161		ug/L		108	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*70 - 130*
Dibromofluoromethane	*105*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

GC/MS VOA

Analysis Batch: 223726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-75145-1	ASH-MW14-120811	Total/NA	Water	8260B	
680-75145-2	ASH-MW20-120811	Total/NA	Water	8260B	
680-75145-3	ASH-MW07-120811	Total/NA	Water	8260B	
680-75145-4	ASH-MW18-120811	Total/NA	Water	8260B	
680-75145-5	ASH-MW19-120811	Total/NA	Water	8260B	
680-75145-6	ASH-MW09-120811	Total/NA	Water	8260B	
680-75145-8	ASH-MW22-120811	Total/NA	Water	8260B	
680-75145-8 MS	ASH-MW22-120811	Total/NA	Water	8260B	
680-75145-8 MSD	ASH-MW22-120811	Total/NA	Water	8260B	
680-75145-10	ASH-RS4-120811	Total/NA	Water	8260B	
680-75145-11	ASH-MW17-120811	Total/NA	Water	8260B	
680-75145-12	ASH-EB3-120811	Total/NA	Water	8260B	
680-75145-13	ASH-MW21-120811	Total/NA	Water	8260B	
680-75145-14	Trip Blank Lot# 112811	Total/NA	Water	8260B	
LCS 680-223726/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-223726/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-223726/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 223802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-75145-7	ASH-DUPB-120811	Total/NA	Water	8260B	
680-75145-9	ASH-MW13-120811	Total/NA	Water	8260B	
680-75145-11 - DL	ASH-MW17-120811	Total/NA	Water	8260B	
LCS 680-223802/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-223802/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-223802/7	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW14-120811
Lab Sample ID: 680-75145-1
Date Collected: 12/08/11 11:58
Matrix: Water
Date Received: 12/09/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223726	12/14/11 23:16	WJC	TAL SAV

Client Sample ID: ASH-MW20-120811
Lab Sample ID: 680-75145-2
Date Collected: 12/08/11 08:26
Matrix: Water
Date Received: 12/09/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223726	12/14/11 23:38	WJC	TAL SAV

Client Sample ID: ASH-MW07-120811
Lab Sample ID: 680-75145-3
Date Collected: 12/08/11 08:29
Matrix: Water
Date Received: 12/09/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223726	12/15/11 00:01	WJC	TAL SAV

Client Sample ID: ASH-MW18-120811
Lab Sample ID: 680-75145-4
Date Collected: 12/08/11 10:06
Matrix: Water
Date Received: 12/09/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223726	12/15/11 00:23	WJC	TAL SAV

Client Sample ID: ASH-MW19-120811
Lab Sample ID: 680-75145-5
Date Collected: 12/08/11 11:29
Matrix: Water
Date Received: 12/09/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223726	12/15/11 00:45	WJC	TAL SAV

Client Sample ID: ASH-MW09-120811
Lab Sample ID: 680-75145-6
Date Collected: 12/08/11 09:35
Matrix: Water
Date Received: 12/09/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223726	12/15/11 01:08	WJC	TAL SAV

Client Sample ID: ASH-DUPB-120811
Lab Sample ID: 680-75145-7
Date Collected: 12/08/11 00:00
Matrix: Water
Date Received: 12/09/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223802	12/15/11 13:31	RB	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: ASH-MW22-120811

Lab Sample ID: 680-75145-8

Date Collected: 12/08/11 14:45
Matrix: Water
Date Received: 12/09/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223726	12/15/11 01:30	WJC	TAL SAV

Client Sample ID: ASH-MW13-120811

Lab Sample ID: 680-75145-9

Date Collected: 12/08/11 14:09
Matrix: Water
Date Received: 12/09/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223802	12/15/11 13:59	RB	TAL SAV

Client Sample ID: ASH-RS4-120811

Lab Sample ID: 680-75145-10

Date Collected: 12/08/11 14:30
Matrix: Water
Date Received: 12/09/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223726	12/15/11 01:53	WJC	TAL SAV

Client Sample ID: ASH-MW17-120811

Lab Sample ID: 680-75145-11

Date Collected: 12/08/11 15:54
Matrix: Water
Date Received: 12/09/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	223726	12/15/11 03:45	WJC	TAL SAV
Total/NA	Analysis	8260B	DL	500	223802	12/15/11 15:25	RB	TAL SAV

Client Sample ID: ASH-EB3-120811

Lab Sample ID: 680-75145-12

Date Collected: 12/08/11 14:30
Matrix: Water
Date Received: 12/09/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223726	12/14/11 22:31	WJC	TAL SAV

Client Sample ID: ASH-MW21-120811

Lab Sample ID: 680-75145-13

Date Collected: 12/08/11 16:14
Matrix: Water
Date Received: 12/09/11 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	223726	12/15/11 04:07	WJC	TAL SAV

Lab Chronicle

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Client Sample ID: Trip Blank Lot# 112811
Date Collected: 12/08/11 00:00
Date Received: 12/09/11 09:27

Lab Sample ID: 680-75145-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223726	12/14/11 22:08	WJC	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Fed Ex Tracking # 8769 3782 2314
Custody Seal # 733555
Bottle order # 37625

Associated C.O.C (1.2 of 2) # 48993 Serial Number 48992

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: Ashland Semi-Annual GM	PROJECT NO.: 11168	PROJECT LOCATION (STATE): MS	
TAL (LAB) PROJECT MANAGER: Lidya Gulizia	P.O. NUMBER: 4501789838	CONTRACT NO.	
CLIENT (SITE) PM: Tim Hassett	CLIENT PHONE: 302-995-3456	CLIENT FAX: 995-3485	
CLIENT NAME: Ashland Chemical	CLIENT E-MAIL: Ethassett@ashland.com		
CLIENT ADDRESS: 500 Hercules Road Wilmington, DE 19808-1599			
COMPANY CONTRACTING THIS WORK (if applicable)			

PAGE 1 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: AP9 VOC's CBE	PRESERVATIVE: HCl	NUMBER OF CONTAINERS SUBMITTED	REMARKS
12-08-11	11:58	ASH-MW14-120811	G	X						3	Note: QAPP RL's/EQuIS
	08:26	ASH-MW08-120811	G	X						3	EDD (Arcadis Format)
	08:29	ASH-MW07-120811	G	X						3	
	10:06	ASH-MW18-120811	G	X						3	
	11:29	ASH-MW19-120811	G	X						3	
	09:35	ASH-MW09-120811	G	X						3	
	—NA—	ASH-DUPB-120811	G	X						3	
	14:45	ASH-MW22-120811	G	X						3	
	14:45	ASH-MW22-120811-MS	G	X						3	
	14:45	ASH-MW22-120811-MSD	G	X						3	
	14:09	ASH-MW13-120811	G	X						3	
	14:30	ASH-RS4-120811	G	X						3	

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RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	12-08-11	1730						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Ruth A Daughtry	12/09/11	0927	YES ○ NO ○		680-75145	Temp 0.6°C

Fed EX Tracking # 8769 3782 2314
Custody Seal # 733555
Bottle Order # 37625

Associated C.o.C. (P. 1 of 1) # 48992 Serial Number 48993

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

○ **TestAmerica Savannah**
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: Ashland Semi-Annual GM	PROJECT NO.: 11168	PROJECT LOCATION (STATE): MS
TAL (LAB) PROJECT MANAGER: Lidya Gulizia	P.O. NUMBER: 4501789838	CONTRACT NO.:
CLIENT (SITE) PM: Tim Hassett	CLIENT PHONE: 302-995-3456	CLIENT FAX: 995-3485
CLIENT NAME: Ashland Chemical	CLIENT E-MAIL: tdhassett@ashland.com	
CLIENT ADDRESS: 500 Hercules Road Wilmington DE 19808-1599		
COMPANY CONTRACTING THIS WORK (if applicable):		

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: App 9 VOC's (CBE)
PRESERVATIVE: Unp

PAGE 2 OF 2

STANDARD REPORT DELIVERY ● DATE DUE ______
EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ______
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	C/G	AQUEOUS	SOLID	AIR	NONAQUEOUS	NUMBER OF CONTAINERS SUBMITTED (App 9 VOC's)	REMARKS
12-08-11	1554	ASH-MW17-120811	G	X				3	NOTE: QAPP RL's/Equis
12-08-11	1430	ASH-EB3-120811	G	X				3	EDD (Arcadis Format)
12-08-11	1614	ASH-MW21-120811	G	X				3	
12-08-11	NA	Trip blank Lot # 112811	G	X				2	

CBE CBE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	12-08-11	1730						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Beth A Daughtry	12/09/11	0920	YES ○ NO ○		680-75145	Temp 0.6°C

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Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-75145-1

Login Number: 75145

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is 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	0.6 C
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?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	False	-10 & -12: times on bottles read "1409"
Samples are received within Holding Time.	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Ashland Inc.
Project/Site: HERC Hattiesburg - GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-75145-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-75173-1
Client Project/Site: Hercules Hattiesburg - GW DEC 2011
Revision: 2

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Timothy Hassett

Authorized for release by:
1/10/2012 4:08:47 PM

Lidya Gulizia
Project Manager II
lidya.gulizia@testamericainc.com

cc: Craig Derouen

Table of Contents

Case Narrative

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - GW DEC 2011

TestAmerica Job ID: 680-75173-1

Job ID: 680-75173-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-75173-1 Revised (Rev 2)

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) for analytical batch 223898 exceeded control limits for iodomethane. This compound has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed, and these results have been reported.

No other analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Comments
The sample results were revised at the client's request to report results at the method detection limit (MDL) for Dichlorobromomethane and Chloroform.

No additional comments.

Sample Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - GW DEC 2011

TestAmerica Job ID: 680-75173-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-75173-1	ASH-MW23-120911	Water	12/09/11 09:42	12/10/11 09:00
680-75173-2	Trip Blank Lot # 112811	Water	12/09/11 00:00	12/10/11 09:00
680-75173-3	ASH-RS5-120911	Water	12/09/11 11:40	12/10/11 09:00

Method Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - GW DEC 2011

TestAmerica Job ID: 680-75173-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

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

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - GW DEC 2011

TestAmerica Job ID: 680-75173-1

Qualifiers

GC/MS VOA

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

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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - GW DEC 2011

TestAmerica Job ID: 680-75173-1

Client Sample ID: ASH-MW23-120911 — Lab Sample ID: 680-75173-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1300	J	2500	500	ug/L	100		8260B	Total/NA
Benzene	5000		100	25	ug/L	100		8260B	Total/NA
2-Butanone (MEK)	210	J	1000	100	ug/L	100		8260B	Total/NA
Carbon disulfide	350		200	60	ug/L	100		8260B	Total/NA
Chlorobenzene	53	J	100	25	ug/L	100		8260B	Total/NA
Chloroform	1800		14	14	ug/L	100		8260B	Total/NA
Methylene Chloride	110	J	500	100	ug/L	100		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	450	J	1000	100	ug/L	100		8260B	Total/NA
Toluene	740		100	33	ug/L	100		8260B	Total/NA

Client Sample ID: Trip Blank Lot # 112811 — Lab Sample ID: 680-75173-2

No Detections

Client Sample ID: ASH-RS5-120911 — Lab Sample ID: 680-75173-3

No Detections

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - GW DEC 2011

TestAmerica Job ID: 680-75173-1

Client Sample ID: ASH-MW23-120911
Date Collected: 12/09/11 09:42
Date Received: 12/10/11 09:00

Lab Sample ID: 680-75173-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**1300**	**J**	2500	500	ug/L			12/16/11 13:42	100
Acetonitrile	4000	U	4000	1000	ug/L			12/16/11 13:42	100
Acrolein	2000	U	2000	740	ug/L			12/16/11 13:42	100
Acrylonitrile	2000	U	2000	720	ug/L			12/16/11 13:42	100
Benzene	**5000**		100	25	ug/L			12/16/11 13:42	100
Dichlorobromomethane	25	U	25	25	ug/L			12/16/11 13:42	100
Bromoform	100	U	100	50	ug/L			12/16/11 13:42	100
Bromomethane	100	U	100	80	ug/L			12/16/11 13:42	100
2-Butanone (MEK)	**210**	**J**	1000	100	ug/L			12/16/11 13:42	100
Carbon disulfide	**350**		200	60	ug/L			12/16/11 13:42	100
Carbon tetrachloride	100	U	100	50	ug/L			12/16/11 13:42	100
Chlorobenzene	**53**	**J**	100	25	ug/L			12/16/11 13:42	100
2-Chloro-1,3-butadiene	100	U	100	30	ug/L			12/16/11 13:42	100
Chloroethane	100	U	100	100	ug/L			12/16/11 13:42	100
Chloroform	**1800**		14	14	ug/L			12/16/11 13:42	100
Chloromethane	100	U	100	33	ug/L			12/16/11 13:42	100
3-Chloro-1-propene	100	U	100	20	ug/L			12/16/11 13:42	100
Chlorodibromomethane	100	U	100	10	ug/L			12/16/11 13:42	100
1,2-Dibromo-3-Chloropropane	100	U	100	44	ug/L			12/16/11 13:42	100
Ethylene Dibromide	100	U	100	25	ug/L			12/16/11 13:42	100
Dibromomethane	100	U	100	20	ug/L			12/16/11 13:42	100
trans-1,4-Dichloro-2-butene	200	U	200	50	ug/L			12/16/11 13:42	100
Dichlorodifluoromethane	100	U	100	25	ug/L			12/16/11 13:42	100
1,1-Dichloroethane	100	U	100	25	ug/L			12/16/11 13:42	100
1,2-Dichloroethane	100	U	100	10	ug/L			12/16/11 13:42	100
cis-1,2-Dichloroethene	100	U	100	15	ug/L			12/16/11 13:42	100
trans-1,2-Dichloroethene	100	U	100	20	ug/L			12/16/11 13:42	100
1,1-Dichloroethene	100	U	100	11	ug/L			12/16/11 13:42	100
1,2-Dichloropropane	100	U	100	13	ug/L			12/16/11 13:42	100
cis-1,3-Dichloropropene	100	U	100	11	ug/L			12/16/11 13:42	100
trans-1,3-Dichloropropene	100	U	100	21	ug/L			12/16/11 13:42	100
Ethylbenzene	100	U	100	11	ug/L			12/16/11 13:42	100
Ethyl methacrylate	100	U	100	25	ug/L			12/16/11 13:42	100
2-Hexanone	1000	U	1000	100	ug/L			12/16/11 13:42	100
Iodomethane	500	U	500	100	ug/L			12/16/11 13:42	100
Isobutyl alcohol	4000	U	4000	1100	ug/L			12/16/11 13:42	100
Methacrylonitrile	2000	U	2000	330	ug/L			12/16/11 13:42	100
Methylene Chloride	**110**	**J**	500	100	ug/L			12/16/11 13:42	100
Methyl methacrylate	100	U	100	48	ug/L			12/16/11 13:42	100
4-Methyl-2-pentanone (MIBK)	**450**	**J**	1000	100	ug/L			12/16/11 13:42	100
Pentachloroethane	500	U	500	120	ug/L			12/16/11 13:42	100
Propionitrile	2000	U	2000	460	ug/L			12/16/11 13:42	100
Styrene	100	U	100	11	ug/L			12/16/11 13:42	100
1,1,1,2-Tetrachloroethane	100	U	100	33	ug/L			12/16/11 13:42	100
1,1,2,2-Tetrachloroethane	100	U	100	18	ug/L			12/16/11 13:42	100
Tetrachloroethene	100	U	100	15	ug/L			12/16/11 13:42	100
Toluene	**740**		100	33	ug/L			12/16/11 13:42	100
1,1,1-Trichloroethane	100	U	100	50	ug/L			12/16/11 13:42	100
1,1,2-Trichloroethane	100	U	100	13	ug/L			12/16/11 13:42	100
Trichloroethene	100	U	100	13	ug/L			12/16/11 13:42	100

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - GW DEC 2011

TestAmerica Job ID: 680-75173-1

Client Sample ID: ASH-MW23-120911
Date Collected: 12/09/11 09:42
Date Received: 12/10/11 09:00

Lab Sample ID: 680-75173-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	100	U	100	25	ug/L			12/16/11 13:42	100
1,2,3-Trichloropropane	100	U	100	41	ug/L			12/16/11 13:42	100
Vinyl acetate	200	U	200	28	ug/L			12/16/11 13:42	100
Vinyl chloride	100	U	100	18	ug/L			12/16/11 13:42	100
Xylenes, Total	200	U	200	20	ug/L			12/16/11 13:42	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*70 - 130*		*12/16/11 13:42*	*100*
Dibromofluoromethane	*105*		*70 - 130*		*12/16/11 13:42*	*100*
Toluene-d8 (Surr)	*104*		*70 - 130*		*12/16/11 13:42*	*100*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - GW DEC 2011

TestAmerica Job ID: 680-75173-1

Client Sample ID: Trip Blank Lot # 112811
Date Collected: 12/09/11 00:00
Date Received: 12/10/11 09:00

Lab Sample ID: 680-75173-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/15/11 13:05	1
Acetonitrile	40	U	40	10	ug/L			12/15/11 13:05	1
Acrolein	20	U	20	7.4	ug/L			12/15/11 13:05	1
Acrylonitrile	20	U	20	7.2	ug/L			12/15/11 13:05	1
Benzene	1.0	U	1.0	0.25	ug/L			12/15/11 13:05	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/15/11 13:05	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/15/11 13:05	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/15/11 13:05	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/15/11 13:05	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/15/11 13:05	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/15/11 13:05	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/15/11 13:05	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/15/11 13:05	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/15/11 13:05	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/15/11 13:05	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/15/11 13:05	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/15/11 13:05	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/15/11 13:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/15/11 13:05	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/15/11 13:05	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/15/11 13:05	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/15/11 13:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 13:05	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/15/11 13:05	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/15/11 13:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 13:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/15/11 13:05	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/15/11 13:05	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/15/11 13:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/15/11 13:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/15/11 13:05	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/15/11 13:05	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/15/11 13:05	1
2-Hexanone	10	U	10	1.0	ug/L			12/15/11 13:05	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/15/11 13:05	1
Isobutyl alcohol	40	U	40	11	ug/L			12/15/11 13:05	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/15/11 13:05	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/15/11 13:05	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/15/11 13:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/15/11 13:05	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/15/11 13:05	1
Propionitrile	20	U	20	4.6	ug/L			12/15/11 13:05	1
Styrene	1.0	U	1.0	0.11	ug/L			12/15/11 13:05	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/15/11 13:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/15/11 13:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 13:05	1
Toluene	1.0	U	1.0	0.33	ug/L			12/15/11 13:05	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/15/11 13:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/15/11 13:05	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/15/11 13:05	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - GW DEC 2011

TestAmerica Job ID: 680-75173-1

Client Sample ID: Trip Blank Lot # 112811
Date Collected: 12/09/11 00:00
Date Received: 12/10/11 09:00

Lab Sample ID: 680-75173-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 13:05	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/15/11 13:05	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/15/11 13:05	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/15/11 13:05	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/15/11 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*70 - 130*		*12/15/11 13:05*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*12/15/11 13:05*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*12/15/11 13:05*	*1*

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - GW DEC 2011

TestAmerica Job ID: 680-75173-1

Client Sample ID: ASH-RS5-120911
Date Collected: 12/09/11 11:40
Date Received: 12/10/11 09:00

Lab Sample ID: 680-75173-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/15/11 16:00	1
Acetonitrile	40	U	40	10	ug/L			12/15/11 16:00	1
Acrolein	20	U	20	7.4	ug/L			12/15/11 16:00	1
Acrylonitrile	20	U	20	7.2	ug/L			12/15/11 16:00	1
Benzene	1.0	U	1.0	0.25	ug/L			12/15/11 16:00	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/15/11 16:00	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/15/11 16:00	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/15/11 16:00	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/15/11 16:00	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/15/11 16:00	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/15/11 16:00	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/15/11 16:00	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/15/11 16:00	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/15/11 16:00	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/15/11 16:00	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/15/11 16:00	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/15/11 16:00	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/15/11 16:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/15/11 16:00	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/15/11 16:00	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/15/11 16:00	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/15/11 16:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 16:00	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/15/11 16:00	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/15/11 16:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 16:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/15/11 16:00	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/15/11 16:00	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/15/11 16:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/15/11 16:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/15/11 16:00	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/15/11 16:00	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/15/11 16:00	1
2-Hexanone	10	U	10	1.0	ug/L			12/15/11 16:00	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/15/11 16:00	1
Isobutyl alcohol	40	U	40	11	ug/L			12/15/11 16:00	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/15/11 16:00	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/15/11 16:00	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/15/11 16:00	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/15/11 16:00	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/15/11 16:00	1
Propionitrile	20	U	20	4.6	ug/L			12/15/11 16:00	1
Styrene	1.0	U	1.0	0.11	ug/L			12/15/11 16:00	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/15/11 16:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/15/11 16:00	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 16:00	1
Toluene	1.0	U	1.0	0.33	ug/L			12/15/11 16:00	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/15/11 16:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/15/11 16:00	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/15/11 16:00	1

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - GW DEC 2011

TestAmerica Job ID: 680-75173-1

Client Sample ID: ASH-RS5-120911
Date Collected: 12/09/11 11:40
Date Received: 12/10/11 09:00

Lab Sample ID: 680-75173-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 16:00	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/15/11 16:00	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/15/11 16:00	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/15/11 16:00	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/15/11 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*70 - 130*		*12/15/11 16:00*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*12/15/11 16:00*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/15/11 16:00*	*1*

Surrogate Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - GW DEC 2011

TestAmerica Job ID: 680-75173-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-75173-1	ASH-MW23-120911	103	105	104
680-75173-2	Trip Blank Lot # 112811	102	103	102
680-75173-3	ASH-RS5-120911	101	103	103
LCS 680-223747/7	Lab Control Sample	96	105	98
LCS 680-223898/5	Lab Control Sample	102	106	99
LCSD 680-223747/8	Lab Control Sample Dup	99	108	98
LCSD 680-223898/6	Lab Control Sample Dup	99	110	100
MB 680-223747/2	Method Blank	103	106	101
MB 680-223898/8	Method Blank	104	105	102

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-223747/2
Matrix: Water
Analysis Batch: 223747

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/15/11 12:36	1
Acetonitrile	40	U	40	10	ug/L			12/15/11 12:36	1
Acrolein	20	U	20	7.4	ug/L			12/15/11 12:36	1
Acrylonitrile	20	U	20	7.2	ug/L			12/15/11 12:36	1
Benzene	1.0	U	1.0	0.25	ug/L			12/15/11 12:36	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/15/11 12:36	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/15/11 12:36	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/15/11 12:36	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/15/11 12:36	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/15/11 12:36	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/15/11 12:36	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/15/11 12:36	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/15/11 12:36	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/15/11 12:36	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/15/11 12:36	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/15/11 12:36	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/15/11 12:36	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/15/11 12:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/15/11 12:36	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/15/11 12:36	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/15/11 12:36	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/15/11 12:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 12:36	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/15/11 12:36	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/15/11 12:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 12:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/15/11 12:36	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/15/11 12:36	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/15/11 12:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/15/11 12:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/15/11 12:36	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/15/11 12:36	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/15/11 12:36	1
2-Hexanone	10	U	10	1.0	ug/L			12/15/11 12:36	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/15/11 12:36	1
Isobutyl alcohol	40	U	40	11	ug/L			12/15/11 12:36	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/15/11 12:36	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/15/11 12:36	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/15/11 12:36	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/15/11 12:36	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/15/11 12:36	1
Propionitrile	20	U	20	4.6	ug/L			12/15/11 12:36	1
Styrene	1.0	U	1.0	0.11	ug/L			12/15/11 12:36	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/15/11 12:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/15/11 12:36	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/15/11 12:36	1
Toluene	1.0	U	1.0	0.33	ug/L			12/15/11 12:36	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/15/11 12:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/15/11 12:36	1

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

Lab Sample ID: MB 680-223747/2
Matrix: Water
Analysis Batch: 223747

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/15/11 12:36	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/15/11 12:36	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/15/11 12:36	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/15/11 12:36	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/15/11 12:36	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/15/11 12:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*70 - 130*		*12/15/11 12:36*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*12/15/11 12:36*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*12/15/11 12:36*	*1*

Lab Sample ID: LCS 680-223747/7
Matrix: Water
Analysis Batch: 223747

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	109		ug/L		109	26 - 180
Benzene	50.0	49.4		ug/L		99	70 - 130
Dichlorobromomethane	50.0	47.7		ug/L		95	70 - 130
Bromoform	50.0	42.8		ug/L		86	70 - 130
Bromomethane	50.0	47.0		ug/L		94	23 - 165
2-Butanone (MEK)	100	110		ug/L		110	49 - 172
Carbon disulfide	50.0	55.3		ug/L		111	54 - 132
Carbon tetrachloride	50.0	48.8		ug/L		98	70 - 130
Chlorobenzene	50.0	49.7		ug/L		99	70 - 130
Chloroethane	50.0	36.4		ug/L		73	56 - 152
Chloroform	50.0	52.2		ug/L		104	70 - 130
Chloromethane	50.0	48.5		ug/L		97	70 - 130
Chlorodibromomethane	50.0	50.2		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	51.6		ug/L		103	70 - 130
Ethylene Dibromide	50.0	49.4		ug/L		99	70 - 130
Dibromomethane	50.0	47.9		ug/L		96	70 - 130
Dichlorodifluoromethane	50.0	62.2		ug/L		124	44 - 146
1,1-Dichloroethane	50.0	52.6		ug/L		105	70 - 130
1,2-Dichloroethane	50.0	44.9		ug/L		90	70 - 130
cis-1,2-Dichloroethene	50.0	53.6		ug/L		107	70 - 130
trans-1,2-Dichloroethene	50.0	55.6		ug/L		111	70 - 130
1,1-Dichloroethene	50.0	55.0		ug/L		110	66 - 131
1,2-Dichloropropane	50.0	51.1		ug/L		102	70 - 130
cis-1,3-Dichloropropene	50.0	50.4		ug/L		101	70 - 130
trans-1,3-Dichloropropene	50.0	49.6		ug/L		99	70 - 130
Ethylbenzene	50.0	49.9		ug/L		100	70 - 130
2-Hexanone	100	103		ug/L		103	42 - 185
Methylene Chloride	50.0	56.4		ug/L		113	67 - 130
4-Methyl-2-pentanone (MIBK)	100	100		ug/L		100	70 - 130
Styrene	50.0	50.9		ug/L		102	70 - 130
1,1,1,2-Tetrachloroethane	50.0	49.7		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.2		ug/L		100	70 - 130

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

Lab Sample ID: LCS 680-223747/7
Matrix: Water
Analysis Batch: 223747

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Tetrachloroethene			50.0	52.6		ug/L		105	70 - 130		
Toluene			50.0	49.5		ug/L		99	70 - 130		
1,1,1-Trichloroethane			50.0	47.7		ug/L		95	70 - 130		
1,1,2-Trichloroethane			50.0	49.8		ug/L		100	70 - 130		
Trichloroethene			50.0	50.0		ug/L		100	70 - 130		
Trichlorofluoromethane			50.0	50.4		ug/L		101	55 - 156		
1,2,3-Trichloropropane			50.0	47.7		ug/L		95	70 - 130		
Vinyl acetate			100	116		ug/L		116	60 - 176		
Vinyl chloride			50.0	47.0		ug/L		94	67 - 134		
Xylenes, Total			150	150		ug/L		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*70 - 130*
Dibromofluoromethane	*105*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 680-223747/8
Matrix: Water
Analysis Batch: 223747

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
Acetone			100	111		ug/L		111	26 - 180	2	50
Benzene			50.0	50.0		ug/L		100	70 - 130	1	30
Dichlorobromomethane			50.0	48.5		ug/L		97	70 - 130	2	30
Bromoform			50.0	43.6		ug/L		87	70 - 130	2	30
Bromomethane			50.0	52.7		ug/L		105	23 - 165	11	50
2-Butanone (MEK)			100	113		ug/L		113	49 - 172	3	30
Carbon disulfide			50.0	57.9		ug/L		116	54 - 132	5	30
Carbon tetrachloride			50.0	49.9		ug/L		100	70 - 130	2	30
Chlorobenzene			50.0	49.9		ug/L		100	70 - 130	0	30
Chloroethane			50.0	41.3		ug/L		83	56 - 152	13	40
Chloroform			50.0	54.6		ug/L		109	70 - 130	4	30
Chloromethane			50.0	50.5		ug/L		101	70 - 130	4	30
Chlorodibromomethane			50.0	50.8		ug/L		102	70 - 130	1	50
1,2-Dibromo-3-Chloropropane			50.0	52.4		ug/L		105	70 - 130	1	50
Ethylene Dibromide			50.0	49.9		ug/L		100	70 - 130	1	30
Dibromomethane			50.0	47.7		ug/L		95	70 - 130	1	30
Dichlorodifluoromethane			50.0	65.3		ug/L		131	44 - 146	5	50
1,1-Dichloroethane			50.0	53.4		ug/L		107	70 - 130	1	30
1,2-Dichloroethane			50.0	45.0		ug/L		90	70 - 130	0	30
cis-1,2-Dichloroethene			50.0	55.6		ug/L		111	70 - 130	4	30
trans-1,2-Dichloroethene			50.0	57.6		ug/L		115	70 - 130	4	30
1,1-Dichloroethene			50.0	58.5		ug/L		117	66 - 131	6	30
1,2-Dichloropropane			50.0	50.6		ug/L		101	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	51.1		ug/L		102	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	49.8		ug/L		100	70 - 130	0	50
Ethylbenzene			50.0	50.2		ug/L		100	70 - 130	0	30
2-Hexanone			100	104		ug/L		104	42 - 185	1	30
Methylene Chloride			50.0	58.5		ug/L		117	67 - 130	4	30

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

Lab Sample ID: LCSD 680-223747/8
Matrix: Water
Analysis Batch: 223747

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 (MIBK)			100	101		ug/L		101	70 - 130	1	30
Styrene			50.0	52.4		ug/L		105	70 - 130	3	30
1,1,1,2-Tetrachloroethane			50.0	49.9		ug/L		100	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	50.4		ug/L		101	70 - 130	0	30
Tetrachloroethene			50.0	52.3		ug/L		105	70 - 130	1	30
Toluene			50.0	49.3		ug/L		99	70 - 130	0	30
1,1,1-Trichloroethane			50.0	48.5		ug/L		97	70 - 130	2	30
1,1,2-Trichloroethane			50.0	50.0		ug/L		100	70 - 130	0	30
Trichloroethene			50.0	51.1		ug/L		102	70 - 130	2	30
Trichlorofluoromethane			50.0	52.6		ug/L		105	55 - 156	4	30
1,2,3-Trichloropropane			50.0	48.3		ug/L		97	70 - 130	1	30
Vinyl acetate			100	117		ug/L		117	60 - 176	1	30
Vinyl chloride			50.0	51.1		ug/L		102	67 - 134	8	30
Xylenes, Total			150	152		ug/L		101	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*70 - 130*
Dibromofluoromethane	*108*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 680-223898/8
Matrix: Water
Analysis Batch: 223898

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25	5.0	ug/L			12/16/11 12:14	1
Acetonitrile	40	U	40	10	ug/L			12/16/11 12:14	1
Acrolein	20	U	20	7.4	ug/L			12/16/11 12:14	1
Acrylonitrile	20	U	20	7.2	ug/L			12/16/11 12:14	1
Benzene	1.0	U	1.0	0.25	ug/L			12/16/11 12:14	1
Dichlorobromomethane	0.25	U	0.25	0.25	ug/L			12/16/11 12:14	1
Bromoform	1.0	U	1.0	0.50	ug/L			12/16/11 12:14	1
Bromomethane	1.0	U	1.0	0.80	ug/L			12/16/11 12:14	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/16/11 12:14	1
Carbon disulfide	2.0	U	2.0	0.60	ug/L			12/16/11 12:14	1
Carbon tetrachloride	1.0	U	1.0	0.50	ug/L			12/16/11 12:14	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			12/16/11 12:14	1
2-Chloro-1,3-butadiene	1.0	U	1.0	0.30	ug/L			12/16/11 12:14	1
Chloroethane	1.0	U	1.0	1.0	ug/L			12/16/11 12:14	1
Chloroform	0.14	U	0.14	0.14	ug/L			12/16/11 12:14	1
Chloromethane	1.0	U	1.0	0.33	ug/L			12/16/11 12:14	1
3-Chloro-1-propene	1.0	U	1.0	0.20	ug/L			12/16/11 12:14	1
Chlorodibromomethane	1.0	U	1.0	0.10	ug/L			12/16/11 12:14	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.44	ug/L			12/16/11 12:14	1
Ethylene Dibromide	1.0	U	1.0	0.25	ug/L			12/16/11 12:14	1
Dibromomethane	1.0	U	1.0	0.20	ug/L			12/16/11 12:14	1
trans-1,4-Dichloro-2-butene	2.0	U	2.0	0.50	ug/L			12/16/11 12:14	1
Dichlorodifluoromethane	1.0	U	1.0	0.25	ug/L			12/16/11 12:14	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/16/11 12:14	1

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

Lab Sample ID: MB 680-223898/8
Matrix: Water
Analysis Batch: 223898

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			12/16/11 12:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			12/16/11 12:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			12/16/11 12:14	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			12/16/11 12:14	1
1,2-Dichloropropane	1.0	U	1.0	0.13	ug/L			12/16/11 12:14	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.11	ug/L			12/16/11 12:14	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.21	ug/L			12/16/11 12:14	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			12/16/11 12:14	1
Ethyl methacrylate	1.0	U	1.0	0.25	ug/L			12/16/11 12:14	1
2-Hexanone	10	U	10	1.0	ug/L			12/16/11 12:14	1
Iodomethane	5.0	U	5.0	1.0	ug/L			12/16/11 12:14	1
Isobutyl alcohol	40	U	40	11	ug/L			12/16/11 12:14	1
Methacrylonitrile	20	U	20	3.3	ug/L			12/16/11 12:14	1
Methylene Chloride	5.0	U	5.0	1.0	ug/L			12/16/11 12:14	1
Methyl methacrylate	1.0	U	1.0	0.48	ug/L			12/16/11 12:14	1
4-Methyl-2-pentanone (MIBK)	10	U	10	1.0	ug/L			12/16/11 12:14	1
Pentachloroethane	5.0	U	5.0	1.2	ug/L			12/16/11 12:14	1
Propionitrile	20	U	20	4.6	ug/L			12/16/11 12:14	1
Styrene	1.0	U	1.0	0.11	ug/L			12/16/11 12:14	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.33	ug/L			12/16/11 12:14	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			12/16/11 12:14	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			12/16/11 12:14	1
Toluene	1.0	U	1.0	0.33	ug/L			12/16/11 12:14	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			12/16/11 12:14	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			12/16/11 12:14	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			12/16/11 12:14	1
Trichlorofluoromethane	1.0	U	1.0	0.25	ug/L			12/16/11 12:14	1
1,2,3-Trichloropropane	1.0	U	1.0	0.41	ug/L			12/16/11 12:14	1
Vinyl acetate	2.0	U	2.0	0.28	ug/L			12/16/11 12:14	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			12/16/11 12:14	1
Xylenes, Total	2.0	U	2.0	0.20	ug/L			12/16/11 12:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*70 - 130*		*12/16/11 12:14*	*1*
Dibromofluoromethane	*105*		*70 - 130*		*12/16/11 12:14*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*12/16/11 12:14*	*1*

Lab Sample ID: LCS 680-223898/5
Matrix: Water
Analysis Batch: 223898

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	106		ug/L		106	26 - 180
Benzene	50.0	50.7		ug/L		101	70 - 130
Dichlorobromomethane	50.0	49.0		ug/L		98	70 - 130
Bromoform	50.0	44.3		ug/L		89	70 - 130
Bromomethane	50.0	54.2		ug/L		108	23 - 165
2-Butanone (MEK)	100	105		ug/L		105	49 - 172
Carbon disulfide	50.0	56.0		ug/L		112	54 - 132

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

Lab Sample ID: LCS 680-223898/5
Matrix: Water
Analysis Batch: 223898

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	50.0		ug/L		100	70 - 130
Chlorobenzene	50.0	50.8		ug/L		102	70 - 130
Chloroethane	50.0	38.1		ug/L		76	56 - 152
Chloroform	50.0	53.5		ug/L		107	70 - 130
Chloromethane	50.0	46.0		ug/L		92	70 - 130
Chlorodibromomethane	50.0	52.4		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	54.3		ug/L		109	70 - 130
Ethylene Dibromide	50.0	50.2		ug/L		100	70 - 130
Dibromomethane	50.0	48.6		ug/L		97	70 - 130
Dichlorodifluoromethane	50.0	63.0		ug/L		126	44 - 146
1,1-Dichloroethane	50.0	53.0		ug/L		106	70 - 130
1,2-Dichloroethane	50.0	45.8		ug/L		92	70 - 130
cis-1,2-Dichloroethene	50.0	55.1		ug/L		110	70 - 130
trans-1,2-Dichloroethene	50.0	55.0		ug/L		110	70 - 130
1,1-Dichloroethene	50.0	57.3		ug/L		115	66 - 131
1,2-Dichloropropane	50.0	51.5		ug/L		103	70 - 130
cis-1,3-Dichloropropene	50.0	52.5		ug/L		105	70 - 130
trans-1,3-Dichloropropene	50.0	51.1		ug/L		102	70 - 130
Ethylbenzene	50.0	51.3		ug/L		103	70 - 130
2-Hexanone	100	105		ug/L		105	42 - 185
Methylene Chloride	50.0	56.7		ug/L		113	67 - 130
4-Methyl-2-pentanone (MIBK)	100	102		ug/L		102	70 - 130
Styrene	50.0	52.6		ug/L		105	70 - 130
1,1,1,2-Tetrachloroethane	50.0	51.3		ug/L		103	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.6		ug/L		101	70 - 130
Tetrachloroethene	50.0	52.9		ug/L		106	70 - 130
Toluene	50.0	50.2		ug/L		100	70 - 130
1,1,1-Trichloroethane	50.0	48.9		ug/L		98	70 - 130
1,1,2-Trichloroethane	50.0	50.8		ug/L		102	70 - 130
Trichloroethene	50.0	50.8		ug/L		102	70 - 130
Trichlorofluoromethane	50.0	51.4		ug/L		103	55 - 156
1,2,3-Trichloropropane	50.0	49.4		ug/L		99	70 - 130
Vinyl acetate	100	122		ug/L		122	60 - 176
Vinyl chloride	50.0	49.4		ug/L		99	67 - 134
Xylenes, Total	150	154		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*70 - 130*
Dibromofluoromethane	*106*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 680-223898/6
Matrix: Water
Analysis Batch: 223898

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
Acetone	100	114		ug/L		114	26 - 180	7	50
Benzene	50.0	50.3		ug/L		101	70 - 130	1	30
Dichlorobromomethane	50.0	50.5		ug/L		101	70 - 130	3	30

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

Lab Sample ID: LCSD 680-223898/6
Matrix: Water
Analysis Batch: 223898

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
Bromoform			50.0	44.5		ug/L		89	70 - 130	0	30
Bromomethane			50.0	60.8		ug/L		122	23 - 165	12	50
2-Butanone (MEK)			100	112		ug/L		112	49 - 172	7	30
Carbon disulfide			50.0	57.9		ug/L		116	54 - 132	3	30
Carbon tetrachloride			50.0	50.1		ug/L		100	70 - 130	0	30
Chlorobenzene			50.0	50.8		ug/L		102	70 - 130	0	30
Chloroethane			50.0	40.0		ug/L		80	56 - 152	5	40
Chloroform			50.0	54.6		ug/L		109	70 - 130	2	30
Chloromethane			50.0	49.7		ug/L		99	70 - 130	8	30
Chlorodibromomethane			50.0	51.6		ug/L		103	70 - 130	1	50
1,2-Dibromo-3-Chloropropane			50.0	53.0		ug/L		106	70 - 130	2	50
Ethylene Dibromide			50.0	51.5		ug/L		103	70 - 130	3	30
Dibromomethane			50.0	49.3		ug/L		99	70 - 130	1	30
Dichlorodifluoromethane			50.0	63.1		ug/L		126	44 - 146	0	50
1,1-Dichloroethane			50.0	54.8		ug/L		110	70 - 130	3	30
1,2-Dichloroethane			50.0	45.8		ug/L		92	70 - 130	0	30
cis-1,2-Dichloroethene			50.0	55.6		ug/L		111	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	56.7		ug/L		113	70 - 130	3	30
1,1-Dichloroethene			50.0	56.9		ug/L		114	66 - 131	1	30
1,2-Dichloropropane			50.0	52.2		ug/L		104	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	52.9		ug/L		106	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	52.9		ug/L		106	70 - 130	3	50
Ethylbenzene			50.0	50.4		ug/L		101	70 - 130	2	30
2-Hexanone			100	105		ug/L		105	42 - 185	0	30
Methylene Chloride			50.0	57.5		ug/L		115	67 - 130	1	30
4-Methyl-2-pentanone (MIBK)			100	105		ug/L		105	70 - 130	3	30
Styrene			50.0	52.7		ug/L		105	70 - 130	0	30
1,1,1,2-Tetrachloroethane			50.0	51.1		ug/L		102	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	51.3		ug/L		103	70 - 130	1	30
Tetrachloroethene			50.0	53.1		ug/L		106	70 - 130	0	30
Toluene			50.0	51.5		ug/L		103	70 - 130	3	30
1,1,1-Trichloroethane			50.0	48.8		ug/L		98	70 - 130	0	30
1,1,2-Trichloroethane			50.0	52.5		ug/L		105	70 - 130	3	30
Trichloroethene			50.0	50.9		ug/L		102	70 - 130	0	30
Trichlorofluoromethane			50.0	51.9		ug/L		104	55 - 156	1	30
1,2,3-Trichloropropane			50.0	49.3		ug/L		99	70 - 130	0	30
Vinyl acetate			100	122		ug/L		122	60 - 176	0	30
Vinyl chloride			50.0	49.8		ug/L		100	67 - 134	1	30
Xylenes, Total			150	153		ug/L		102	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*70 - 130*
Dibromofluoromethane	*110*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

QC Association Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - GW DEC 2011

TestAmerica Job ID: 680-75173-1

GC/MS VOA

Analysis Batch: 223747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-75173-2	Trip Blank Lot # 112811	Total/NA	Water	8260B	
680-75173-3	ASH-RS5-120911	Total/NA	Water	8260B	
LCS 680-223747/7	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-223747/8	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-223747/2	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 223898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-75173-1	ASH-MW23-120911	Total/NA	Water	8260B	
LCS 680-223898/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-223898/6	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-223898/8	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - GW DEC 2011

TestAmerica Job ID: 680-75173-1

Client Sample ID: ASH-MW23-120911

Lab Sample ID: 680-75173-1

Date Collected: 12/09/11 09:42
Matrix: Water
Date Received: 12/10/11 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	223898	12/16/11 13:42	AJMC	TAL SAV

Client Sample ID: Trip Blank Lot # 112811

Lab Sample ID: 680-75173-2

Date Collected: 12/09/11 00:00
Matrix: Water
Date Received: 12/10/11 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223747	12/15/11 13:05	AJMC	TAL SAV

Client Sample ID: ASH-RS5-120911

Lab Sample ID: 680-75173-3

Date Collected: 12/09/11 11:40
Matrix: Water
Date Received: 12/10/11 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223747	12/15/11 16:00	AJMC	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

FedEx Track # 8784 5104 (5 C?)
Custody Seal # 970451
Bottle Order # 37625

Serial Number 48991

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

Field	Value
PROJECT REFERENCE	Ashland Semi-Annual GM
PROJECT NO.	11168
PROJECT LOCATION (STATE)	MS
TAL (LAB) PROJECT MANAGER	Lidya Gulizia
P.O. NUMBER	4501789838
CONTRACT NO.	
CLIENT (SITE) PM	Tim Hassett
CLIENT PHONE	302-995-3456
CLIENT FAX	995-3485
CLIENT NAME	Ashland Chemical
CLIENT E-MAIL	tdhassett@ashland.com
CLIENT ADDRESS	500 Hercules Road Wilmington, DE. 19808-1599
COMPANY CONTRACTING THIS WORK (if applicable)	

PAGE 1 OF 1

REQUIRED ANALYSIS: App 9 VOC's

PRESERVATIVE: -4-

STANDARD REPORT DELIVERY: (selected)
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE)
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED (App 9 VOC's)	REMARKS
12-09-11	0942	ASH-MW23-120911	G	X				3	Note QAPP RL's / Equis
12-09-11	NA	Tripblank Lot# 112811	G	X				2	EDD (Arcadis Format)
12-09-11	1140	ASH-RSS-1209-11	G	X				3	↓ ↓ ← (No Ash Peleason 9-1)

CBS

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	12-9-11	1215						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

6800/524

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
George K Conner	12/10/11	0900	YES ◯ NO ◯		680-75173	2.1°C

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-75173-1

Login Number: 75173

List Source: TestAmerica Savannah

List Number: 1

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is 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	2.1 C
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?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	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	Insufficient volume received for MS/MSD.
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg - GW DEC 2011

TestAmerica Job ID: 680-75173-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Appendix C

Concentration Trend Graphs

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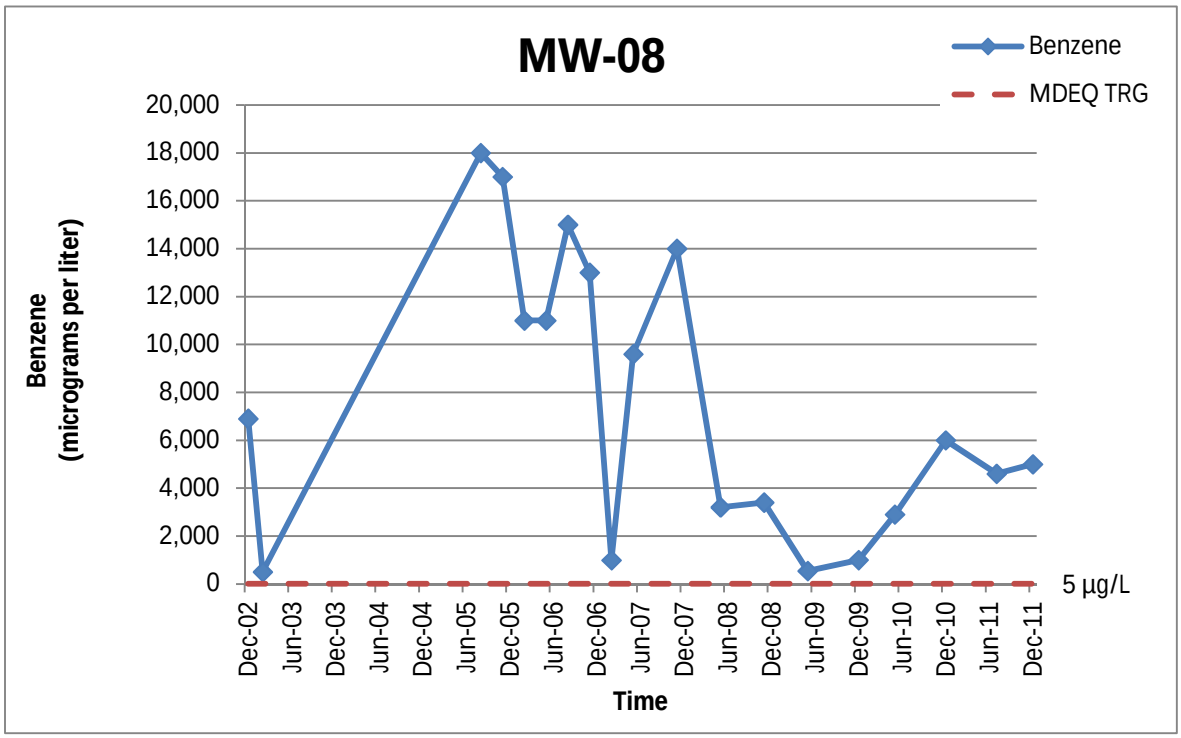
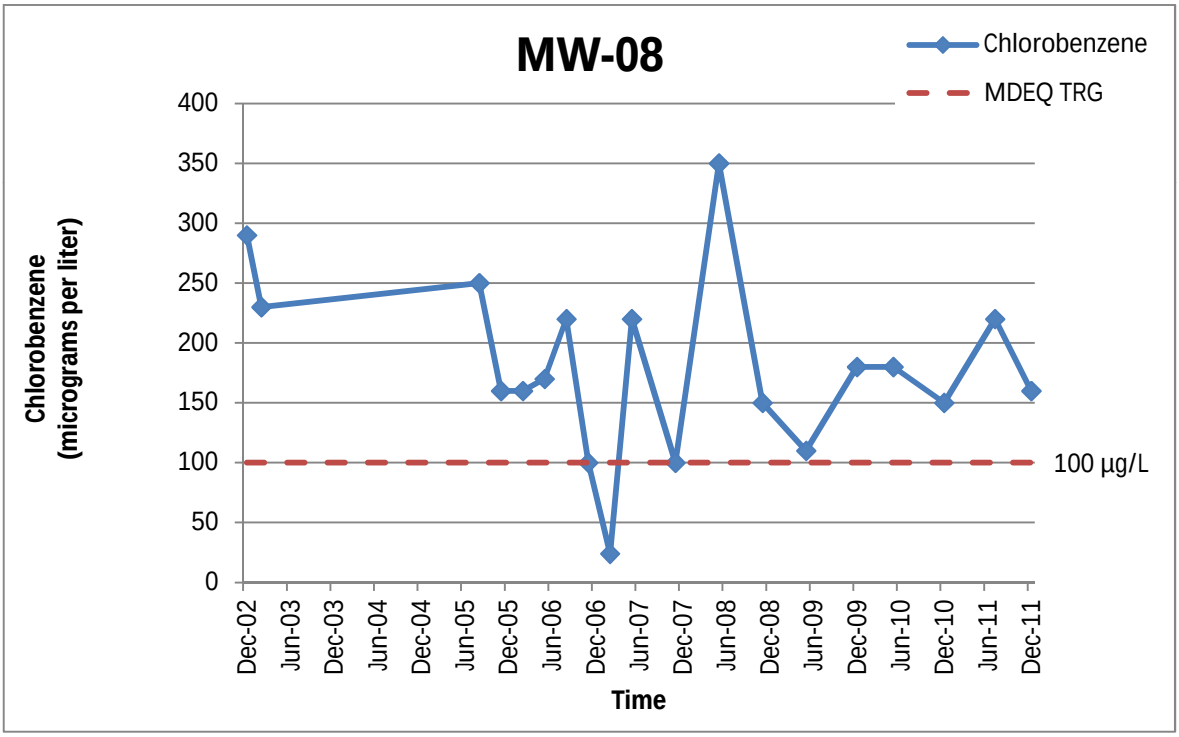
VOC Concentration Trends at MW-08
Semiannual Groundwater Monitoring Report
Hercules Incorporated
Hattiesburg, Mississippi





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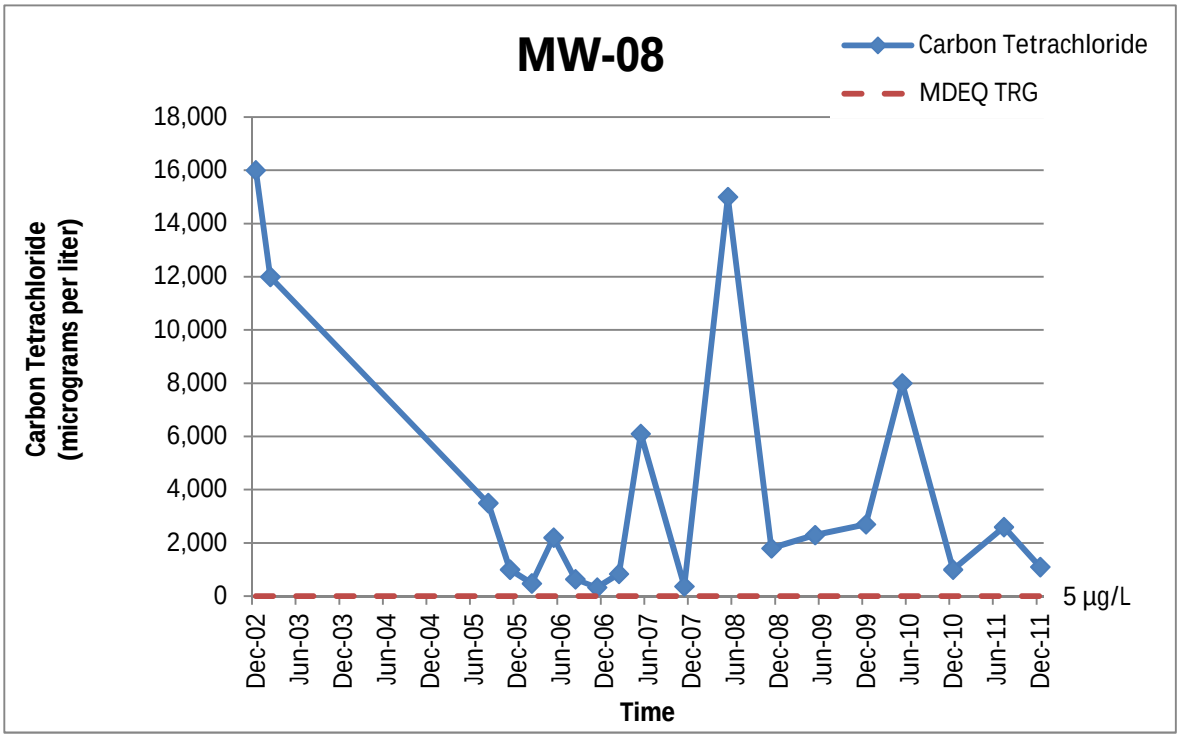
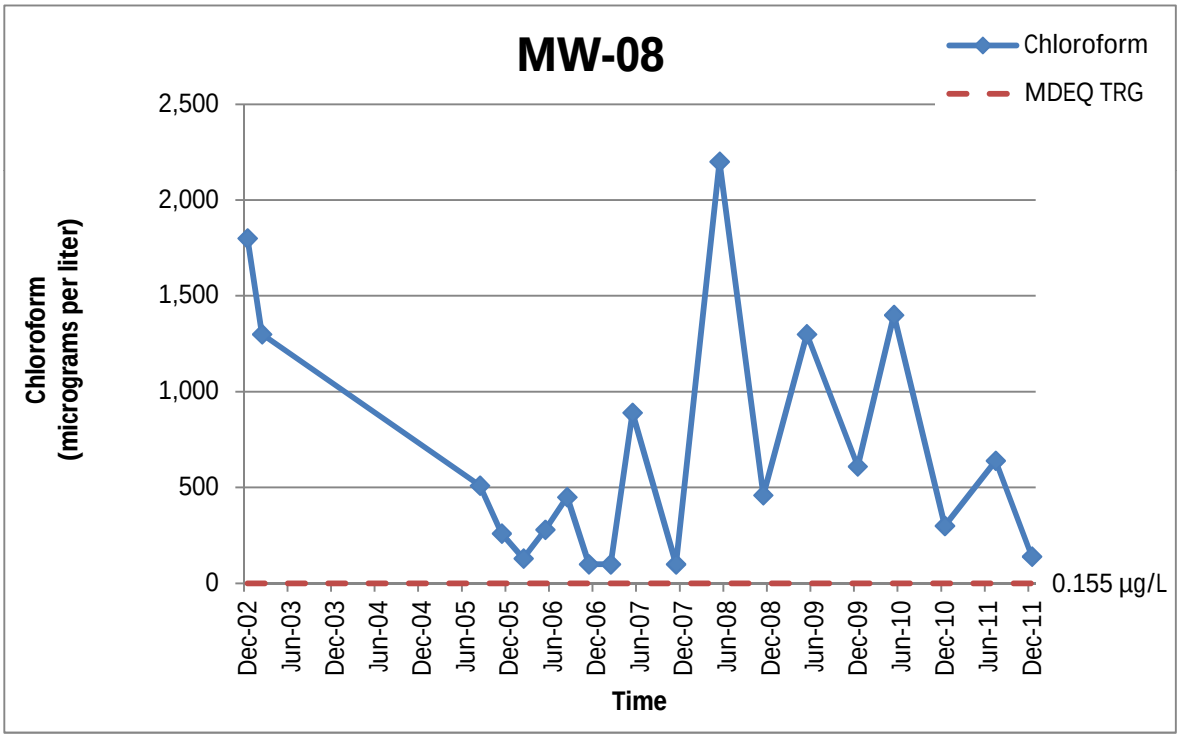
VOC Concentration Trends at MW-08
Semiannual Groundwater Monitoring Report
Hercules Incorporated
Hattiesburg, Mississippi





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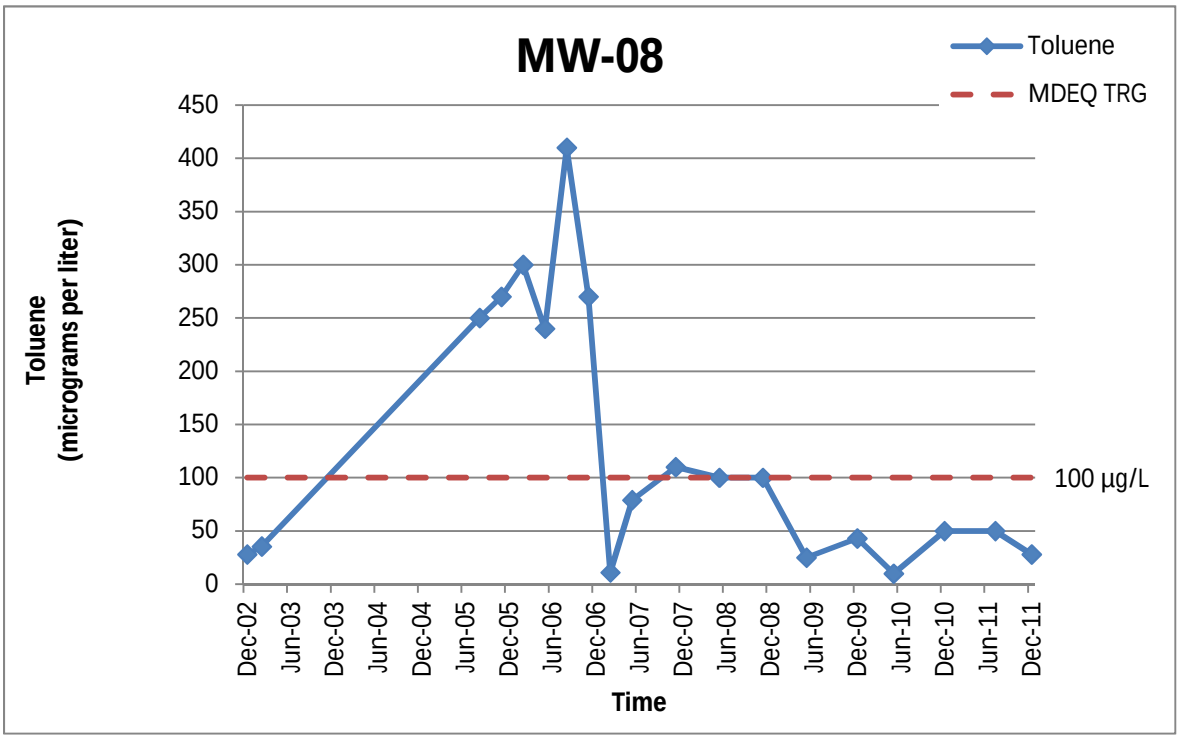
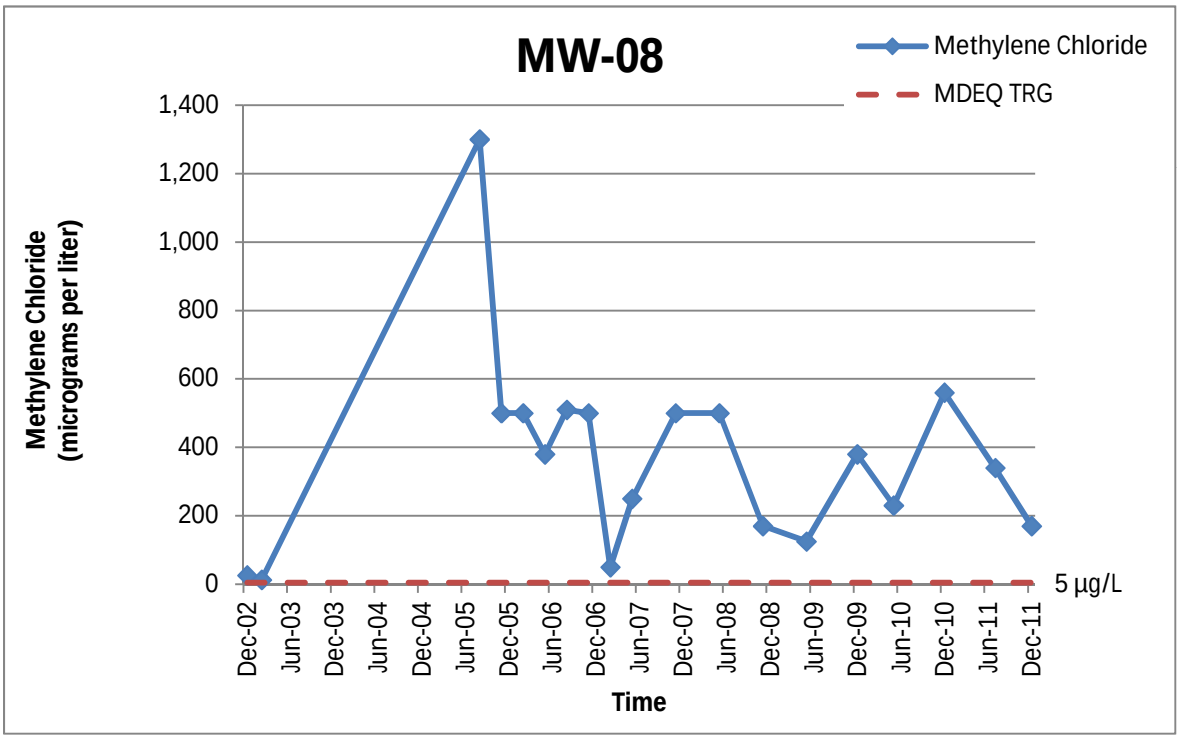
VOC Concentration Trends at MW-08
Semiannual Groundwater Monitoring Report
Hercules Incorporated
Hattiesburg, Mississippi





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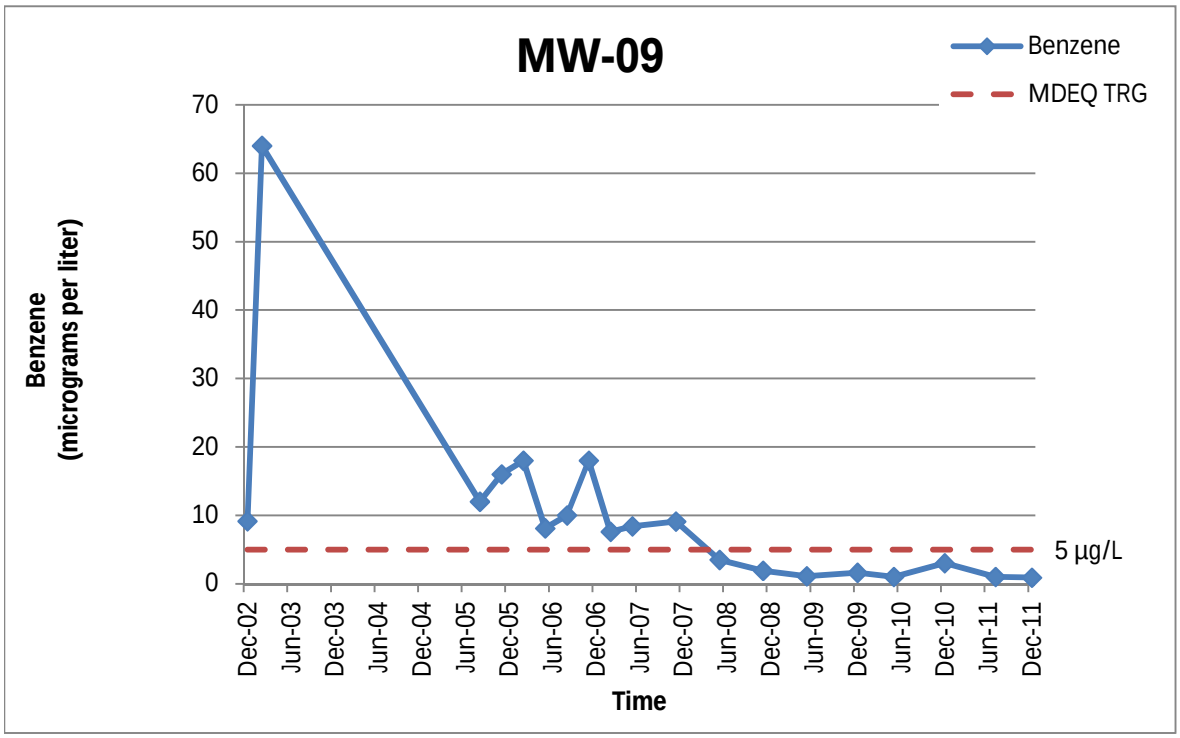
VOC Concentration Trends at MW-09
Semiannual Groundwater Monitoring Report
Hercules Incorporated
Hattiesburg, Mississippi



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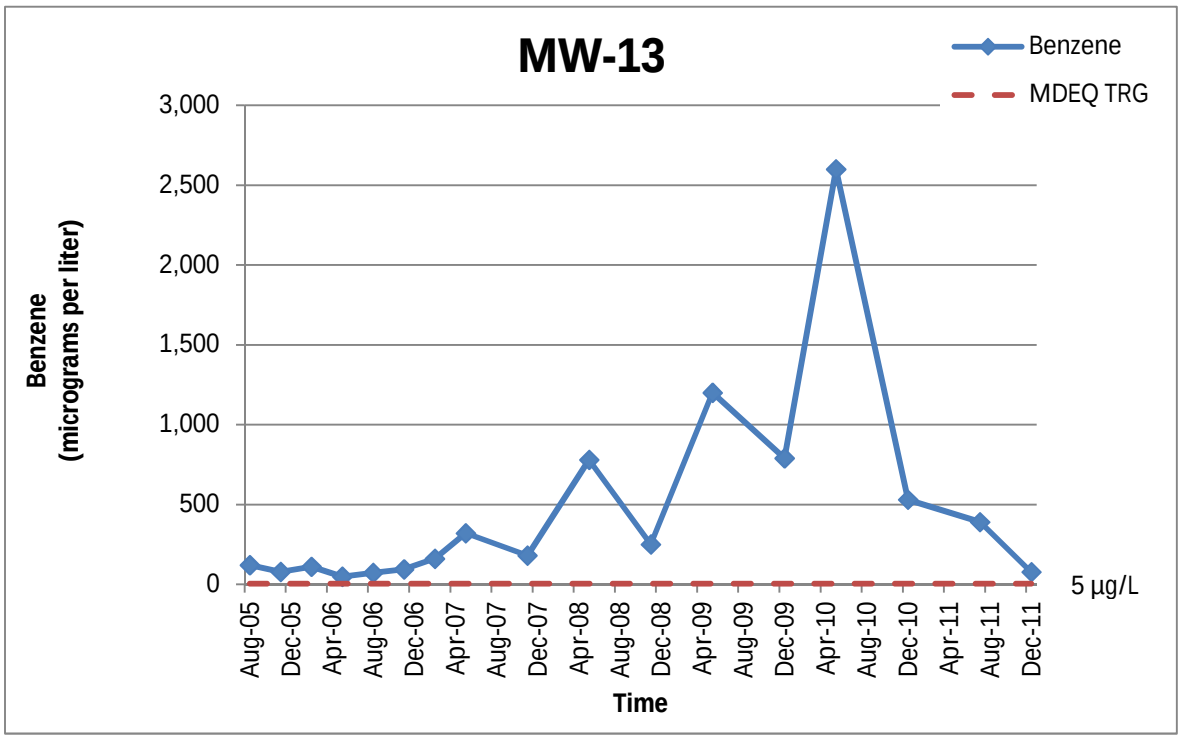
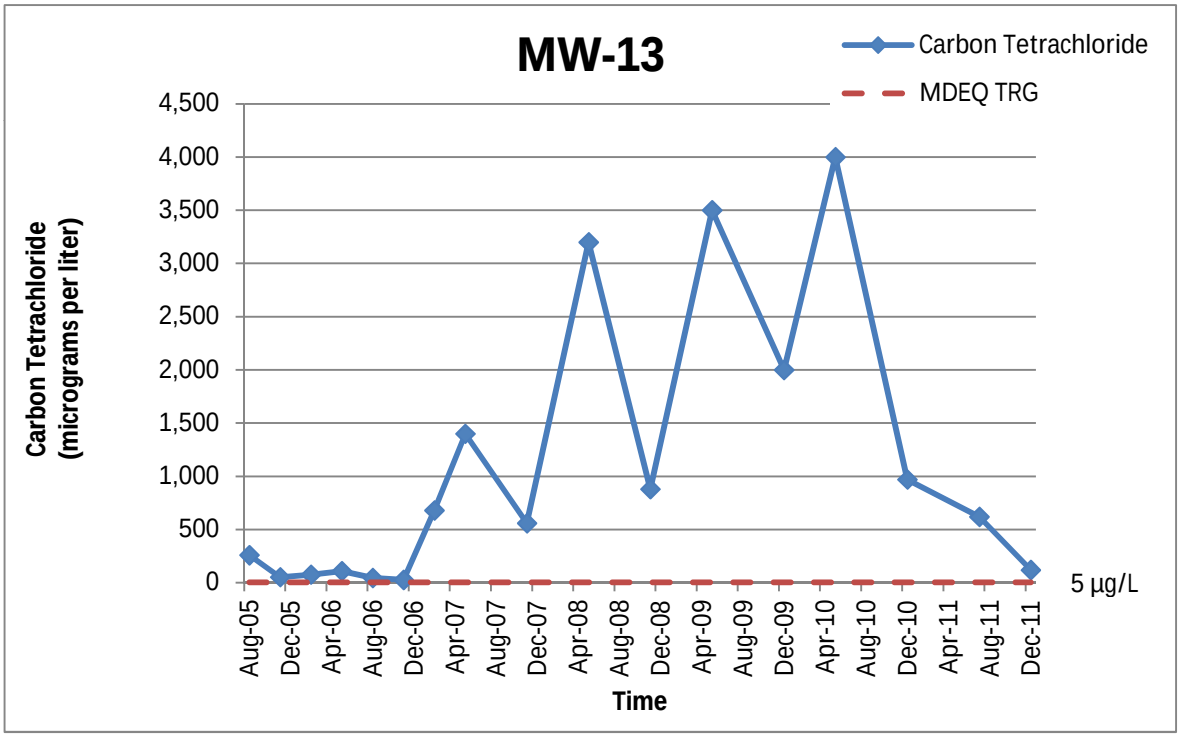
VOC Concentration Trends at MW-13
Semiannual Groundwater Monitoring Report
Hercules Incorporated
Hattiesburg, Mississippi





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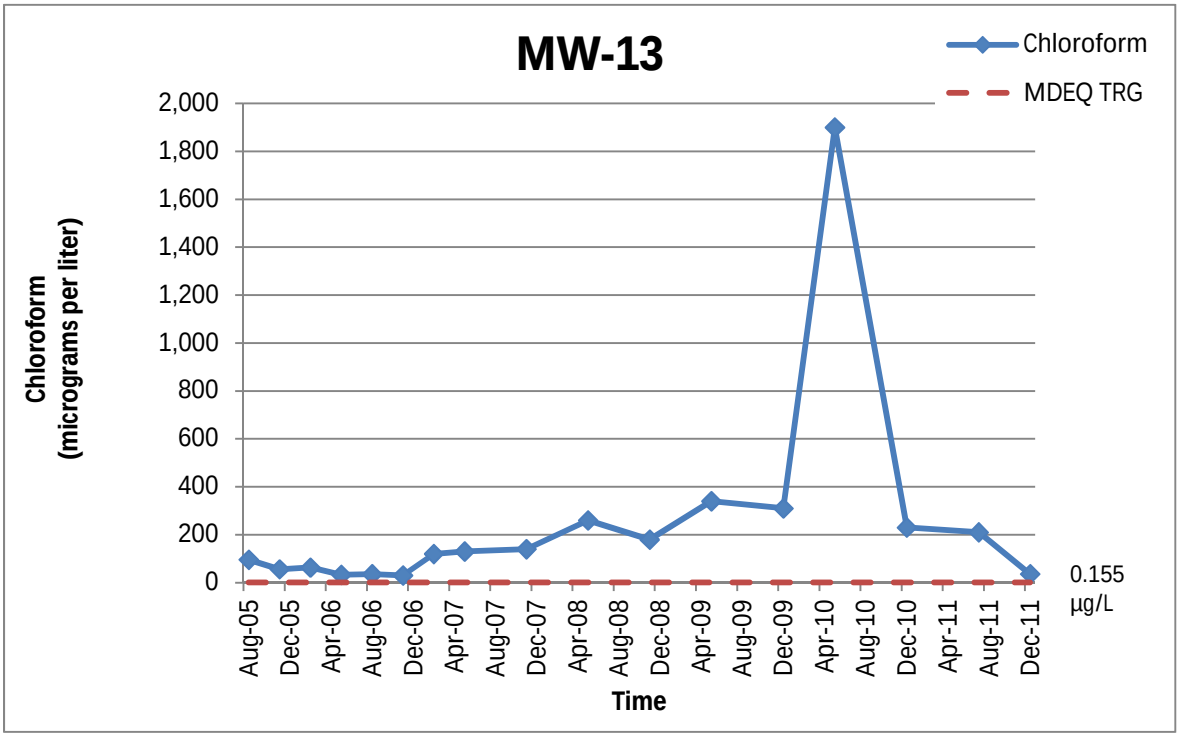
VOC Concentration Trends at MW-13
Semiannual Groundwater Monitoring Report
Hercules Incorporated
Hattiesburg, Mississippi



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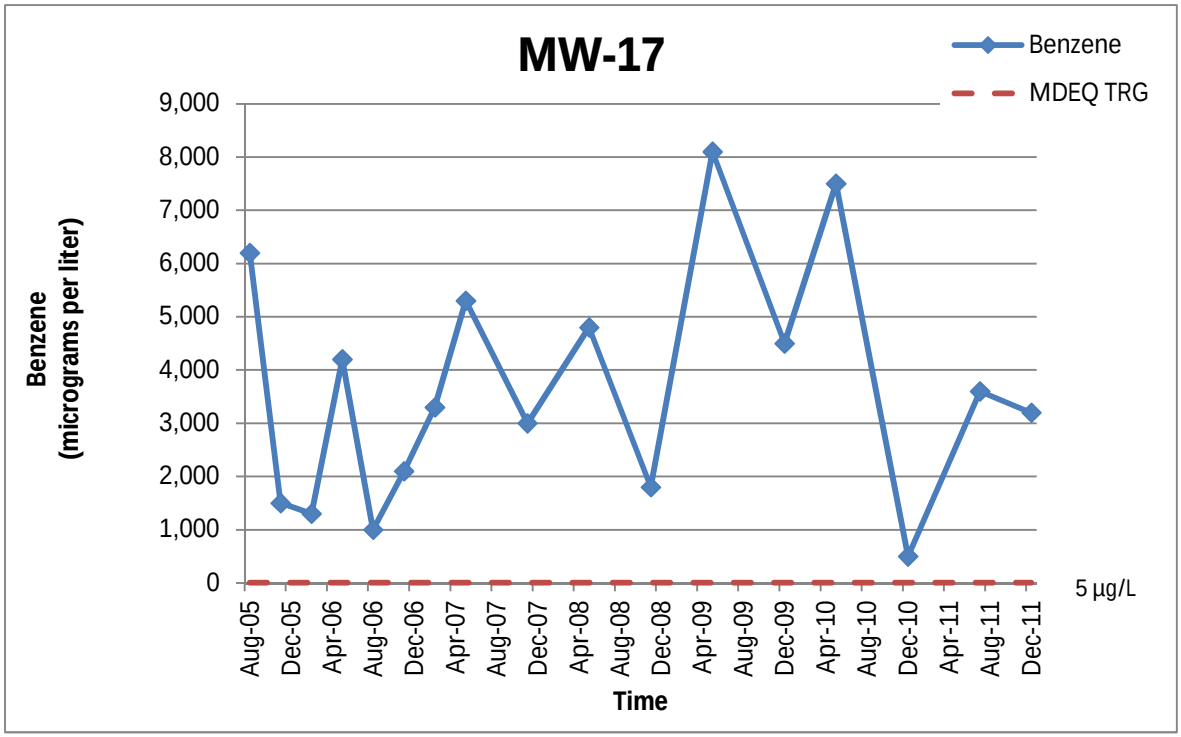
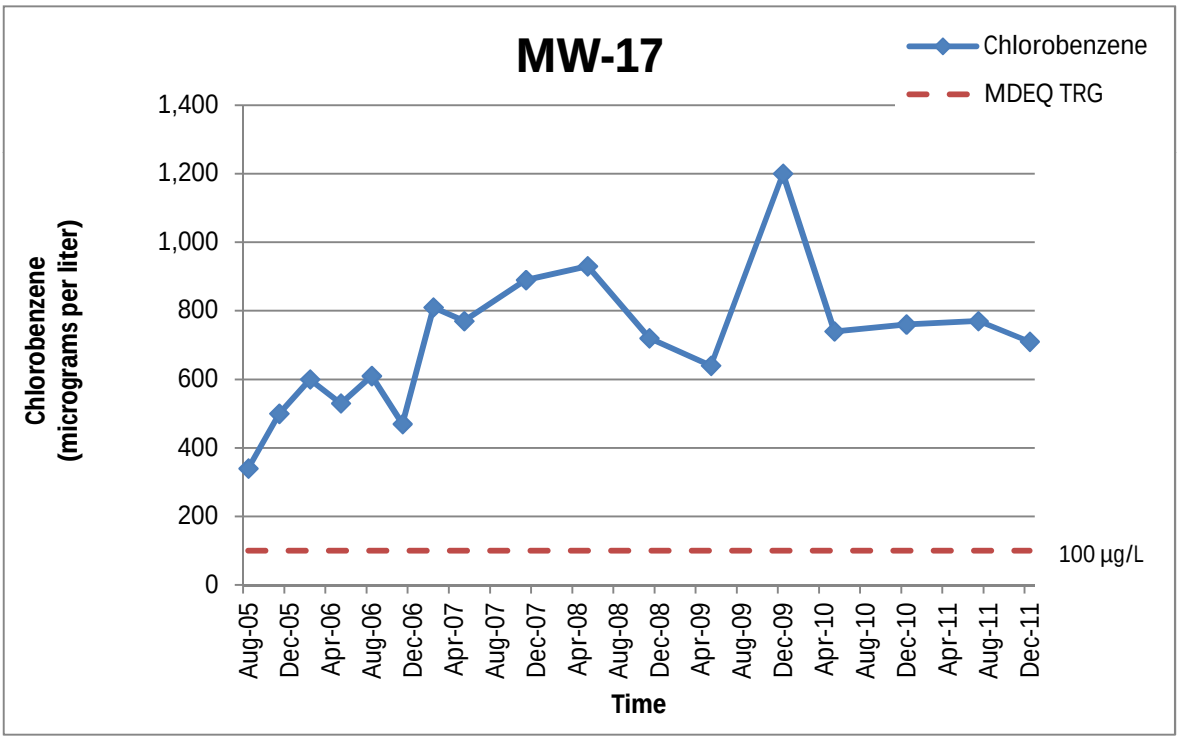
VOC Concentration Trends at MW-17
Semiannual Groundwater Monitoring Report
Hercules Incorporated
Hattiesburg, Mississippi





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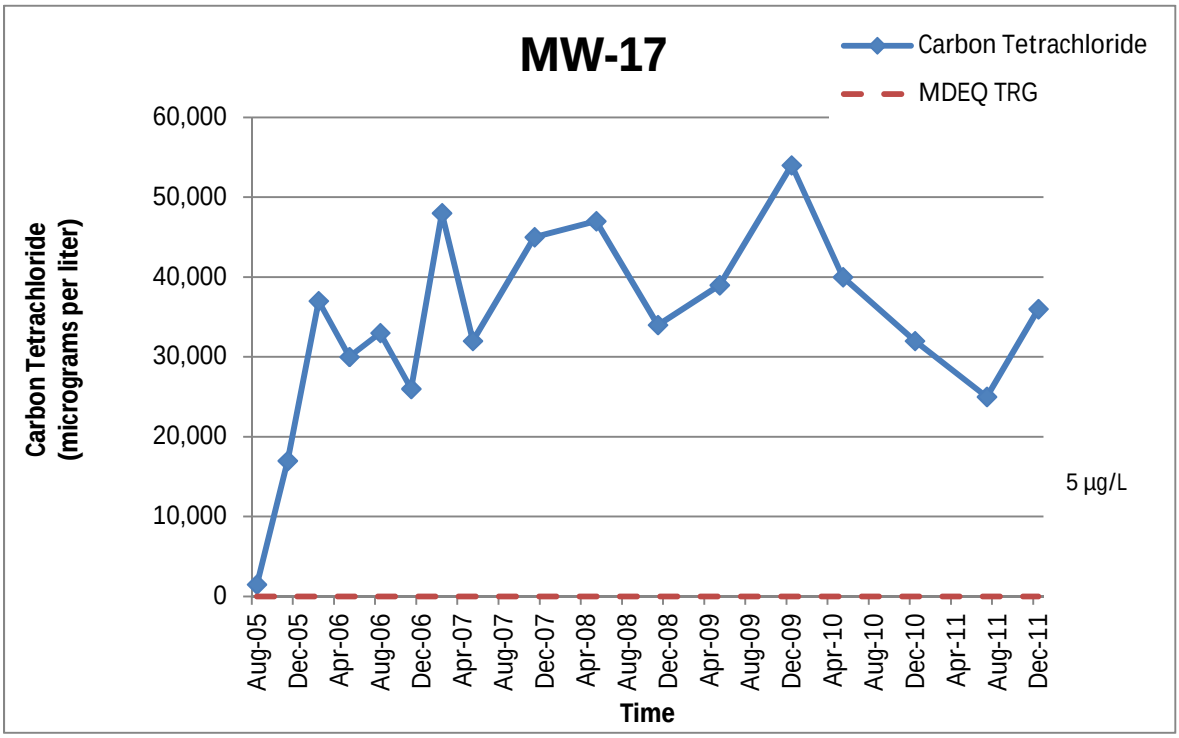
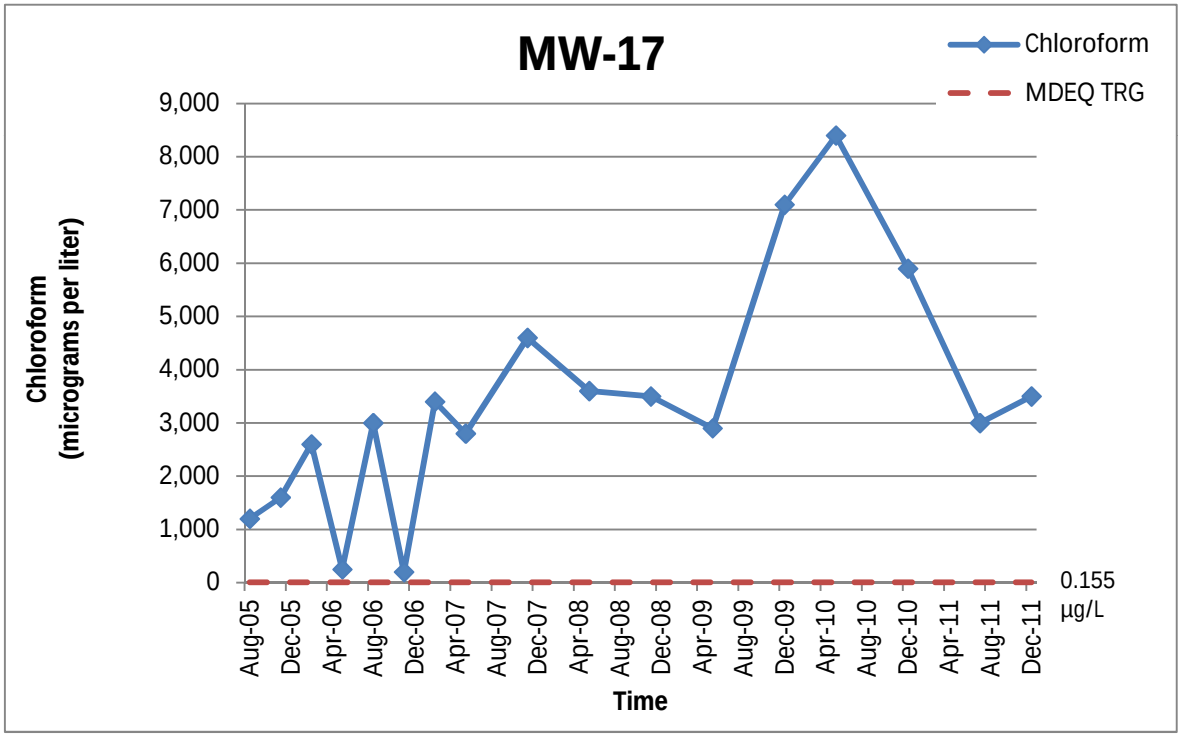
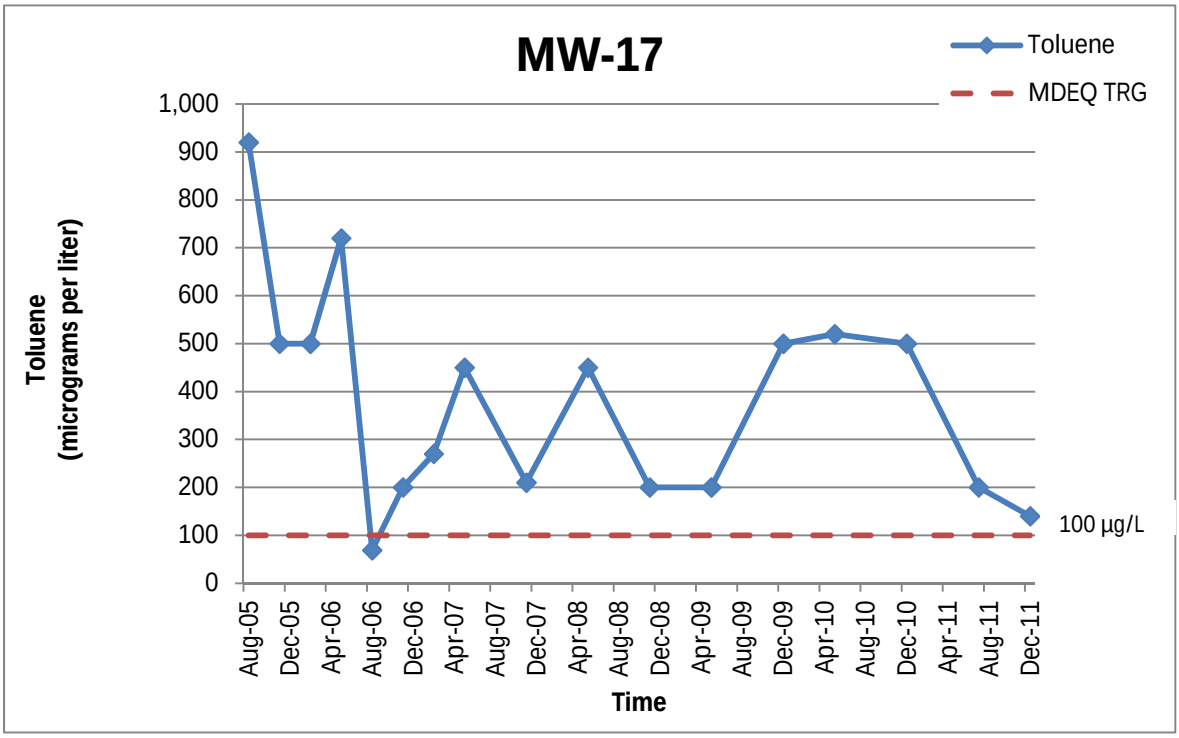
VOC Concentration Trends at MW-17
Semiannual Groundwater Monitoring Report
Hercules Incorporated
Hattiesburg, Mississippi





ARCADIS

VOC Concentration Trends at MW-17
Semiannual Groundwater Monitoring Report
Hercules Incorporated
Hattiesburg, Mississippi



ARCADIS

VOC Concentration Trends at MW-19
Semiannual Groundwater Monitoring Report
Hercules Incorporated
Hattiesburg, Mississippi