


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region IV  
Environmental Services Division  
College Station Road, Athens, Ga. 30613

\*\*\*\*\*MEMORANDUM\*\*\*\*\*

DATE: 08/21/92

SUBJECT: Results of Purgeable Organic Analysis;  
92-0629 HERCULES INC  
HATTIESBURG MS  
CASE NO: 18341

FROM:   
Robert W. Knight  
Chief, Laboratory Evaluation/Quality Assurance Section

TO: JOE SLYKERMAN

Attached are the results of analysis of samples collected as part of the subject project.

As a result of the Quality Assurance Review, certain data qualifiers may have been placed on the data. Attached is a DATA QUALIFIER REPORT which explains the reasons that these qualifiers were required.

If you have any questions please contact me.

ATTACHMENT

ORGANIC DATA QUALIFIER REPORT

Case Number 18341 Project Number 92-0629 SAS Number  
 Site ID. Hercules, Inc., Hattiesburg, MS.

<u>Affected Samples</u>	<u>Compound or Fraction</u>	<u>Flag Used</u>	<u>Reason</u>
<u>Volatiles</u>			
69710	bromodichloromethane	J	<quantitation limit
	dibromochloromethane	J	<quantitation limit
69719	acetone	J	>quantitation range
	benzene	J	<quantitation limit
	4-methyl-2-pentanone	J	<quantitation limit in dilution
	ethylbenzene	J	<quantitation limit
69721	toluene	J	<quantitation limit
69723	xylenes	J	<quantitation limit
<u>Extractables</u>			
69711,69721	phenanthrene	J	<quantitation limit
69711	fluoranthene	J	<quantitation limit
	pyrene	J	<quantitation limit
69711,69717	3-nitroaniline	R	low response factor
69714	all acids	R	unacceptable surrogate
<u>Pesticides</u>			
69711	gamma-chlordane	N	difference between column quantitations
	gamma-BHC	J	<quantitation limit
	aldrin	J	<quantitation limit
69717	methoxychlor	J	<quantitation limit
69719	endosulfan sulfate	N	difference between column quantitations
	endrin aldehyde	N	difference between column quantitations
69714	alpha-chlordane	J	<quantitation limit
	alpha-chlordane	N	difference between column quantitations
	rochlor 1260	J	<quantitation limit



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/20/92

PURGEABLE ORGANICS DATA REPORT

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 \*\* PROJECT NO. 92-0629 SAMPLE NO. 69713 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: C. HELM \*\*  
 \*\* SOURCE: HERCULES INC STATION ID: TW-01 CITY: HATTIESBURG ST: MS \*\*  
 \*\* COLLECTION START: 06/24/92 1045 STOP: 00/00/00 \*\*

\*\*\*  
 \*\* CASE NO.: 18341 SAS NO.: D. NO.: DH63 \*\*  
 \*\* UG/L UG/L UG/L \*\*

ANALYTICAL RESULTS

ANALYTICAL RESULTS

10U CHLOROMETHANE  
 10U BROMOMETHANE  
 10U VINYL CHLORIDE  
 10U CHLOROETHANE  
 10U METHYLENE CHLORIDE  
 10U ACETONE  
 10U CARBON DISULFIDE  
 10U 1,1-DICHLOROETHANE  
 10U 1,1-DICHLOROETHANE  
 10U 1,2-DICHLOROETHANE (TOTAL)  
 10U CHLOROFORM  
 10U 1,2-DICHLOROETHANE  
 10U METHYL ETHYL KETONE  
 10U 1,1,1-TRICHLOROETHANE  
 10U CARBON TETRACHLORIDE  
 10U BROMODICHLOROMETHANE

10U 1,2-DICHLOROPROPANE  
 10U CIS-1,3-DICHLOROPROPENE  
 10U TRICHLOROETHENE (TRICHLOROETHYLENE)  
 10U DIBROMOCHLOROMETHANE  
 10U 1,1,2-TRICHLOROETHANE  
 10U BENZENE  
 10U TRANS-1,3-DICHLOROPROPENE  
 10U BROMOFORM  
 10U METHYL ISOBUTYL KETONE  
 10U METHYL BUTYL KETONE  
 10U TETRACHLOROETHENE (TETRACHLOROETHYLENE)  
 10U 1,1,2,2-TETRACHLOROETHANE  
 10U TOLUENE  
 10U CHLOROBENZENE  
 10U ETHYL BENZENE  
 10U STYRENE  
 10U TOTAL XYLENES

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
 \*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/20/92

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 92-0629 SAMPLE NO. 69720 SAMPLE TYPE: SOIL  
 \*\*\* SOURCE: HERCULES INC  
 \*\*\* STATION ID: SS-03  
 \*\*\*  
 \*\*\* CASE NO.: 18341  
 \*\*\*  
 \*\*\* PROG ELEM: NSF COLLECTED BY: C HELM  
 \*\*\* CITY: HATTIESBURG ST: MS  
 \*\*\* COLLECTION START: 06/25/92 0725 STOP: 00/00/00  
 \*\*\*

\*\*\* SAS NO.: \*\*\*\*\* D. NO.: DH70  
 \*\*\* UG/KG ANALYTICAL RESULTS ANALYTICAL RESULTS

CONCENTRATION	ANALYTICAL RESULTS	CONCENTRATION	ANALYTICAL RESULTS
130U	CHLOROMETHANE	130U	1,2-DICHLOROPROPANE
130U	BROMOMETHANE	130U	CIS-1,3-DICHLOROPROPENE
130U	VINYL CHLORIDE	130U	TRICHLOROETHENE (TRICHLOROETHYLENE)
130U	CHLOROETHANE	130U	DIBROMOCHLOROMETHANE
130U	METHYLENE CHLORIDE	130U	1,1,2-TRICHLOROETHANE
210U	ACETONE	130U	BENZENE
130U	CARBON DISULFIDE	130U	TRANS-1,3-DICHLOROPROPENE
130U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	130U	BROMOFORM
130U	1,1-DICHLOROETHANE	130U	METHYL ISOBUTYL KETONE
130U	1,2-DICHLOROETHANE (TOTAL)	130U	METHYL BUTYL KETONE
130U	CHLOROFORM	130U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
130U	1,2-DICHLOROETHANE	130U	1,1,2,2-TETRACHLOROETHANE
23	METHYL ETHYL KETONE	46	TOLUENE
130U	1,1,1-TRICHLOROETHANE	130U	CHLOROBENZENE
130U	CARBON TETRACHLORIDE	130U	ETHYL BENZENE
130U	BROMODICHLOROMETHANE	130U	STYRENE
		130U	TOTAL XYLENES
		22	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*  
 \*\*\*REMARKS\*\*\*  
 \*\*\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/20/92

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 92-0629 SAMPLE NO. 69725 SAMPLE TYPE: SOIL  
 \*\*\* SOURCE: HERCULES INC STATION ID: SD-04  
 \*\*\* CASE NO.: 18341 SAS NO.: DH75  
 \*\*\* UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

PROG ELEM: NSF COLLECTED BY: C HELM  
 CITY: HATTIESBURG ST: MS  
 COLLECTION START: 06/25/92 1245 STOP: 00/00/00

\*\*\* D. NO.: DH75  
 \*\*\* UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

NA CHLOROMETHANE	NA 1,2-DICHLOROPROPANE
NA BROMOMETHANE	NA CIS-1,3-DICHLOROPROPENE
NA VINYL CHLORIDE	NA TRICHLOROETHENE (TRICHLOROETHYLENE)
NA CHLOROETHANE	NA DIBROMOCHLOROMETHANE
NA METHYLENE CHLORIDE	NA 1,1,2-TRICHLOROETHANE
NA ACETONE	NA BENZENE
NA CARBON DISULFIDE	NA TRANS-1,3-DICHLOROPROPENE
NA 1,1-DICHLOROETHANE	NA BROMOFORM
NA 1,1-DICHLOROETHANE	NA METHYL ISOBUTYL KETONE
NA 1,2-DICHLOROETHENE (TOTAL)	NA METHYL BUTYL KETONE
NA CHLOROFORM	NA TETRACHLOROETHENE (TETRACHLOROETHYLENE)
NA 1,2-DICHLOROETHANE	NA 1,1,2,2-TETRACHLOROETHANE
NA METHYL ETHYL KETONE	NA TOLUENE
NA 1,1,1-TRICHLOROETHANE	NA CHLOROBENZENE
NA CARBON TETRACHLORIDE	NA ETHYL BENZENE
NA BROMODICHLOROMETHANE	NA STYRENE
	NA TOTAL XYLENES
	NA PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

- \*A-AVERAGE VALUE
- \*J-ESTIMATED VALUE
- \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
- \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
- \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
- \*NA-NOT ANALYZED
- \*NAI-INTERFERENCES
- \*R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
- \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 92-0629 SAMPLE NO. 69726 SAMPLE TYPE: GROUNDWA  
SOURCE: HERCULES INC  
STATION ID: MW-81

PROG ELEM: NSF COLLECTED BY: C HELM  
CITY: HATTIESBURG ST: MS  
COLLECTION START: 06/25/92 1330 STOP: 00/00/00

CASE NO.: 18341

SAS NO.: D. NO.: DH76

ANALYTICAL RESULTS

ANALYTICAL RESULTS

10U	CHLOROMETHANE	10U	1,2-DICHLOROPROPANE
10U	BROMOMETHANE	10U	CIS-1,3-DICHLOROPROPENE
10U	VINYL CHLORIDE	10U	TRICHLOROETHENE (TRICHLOROETHYLENE)
10U	CHLOROETHANE	10U	DIBROMOCHLOROMETHANE
10U	METHYLENE CHLORIDE	10U	1,1,2-TRICHLOROETHANE
10U	ACETONE	10U	BENZENE
10U	CARBON DISULFIDE	10U	TRANS-1,3-DICHLOROPROPENE
10U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	10U	BROMOFORM
10U	1,1-DICHLOROETHANE	10U	METHYL ISOBUTYL KETONE
10U	1,2-DICHLOROETHENE (TOTAL)	10U	METHYL BUTYL KETONE
10U	CHLOROFORM	10U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10U	1,2-DICHLOROETHANE	10U	1,1,2,2-TETRACHLOROETHANE
10U	METHYL ETHYL KETONE	10U	TOLUENE
10U	1,1,1-TRICHLOROETHANE	10U	CHLOROBENZENE
10U	CARBON TETRACHLORIDE	10U	ETHYL BENZENE
10U	BROMODICHLOROMETHANE	10U	STYRENE
		10U	TOTAL XYLENES

\*\*\*\*REMARKS\*\*\*\*

\*\*\*\*REMARKS\*\*\*\*

\*\*\*\*FOOTNOTES\*\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/20/92

MISCELLANEOUS PURGEABLE ORGANICS - DATA REPORT

\*\*\* PROJECT NO. 92-0629 SAMPLE NO. 69718 SAMPLE TYPE: SOIL  
 \*\*\* SOURCE: HERCULES INC  
 \*\*\* STATION ID: SD-03  
 \*\*\* CASE NO.: 18341  
 \*\*\* SAS NO.:  
 \*\*\*  
 \*\*\* PROG ELEM: NSF COLLECTED BY: C HELM  
 \*\*\* CITY: HATTIESBURG ST: MS  
 \*\*\* COLLECTION START: 06/24/92 1815 STOP: 00/00/00  
 \*\*\* D. NO.: DH68 MD NO: DC68  
 \*\*\*

ANALYTICAL RESULTS UG/KG

50000JN	CYCLOHEXANE
30000JN	CARENE
30000JN	DIMETHYLMETHYLENEBICYCLOHEPTANE
30000JN	TRIMETHYLBICYCLOHEPTANE

\*\*\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE  
 \*K-ACTUAL VALUE  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTIFICATION LIMIT  
 \*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.  
 \*NA-NOT ANALYZED  
 \*J-ESTIMATED VALUE  
 \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*I-INTERFERENCES  
 \*M-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTIFICATION LIMIT  
 \*O-OTHER  
 \*P-OTHER  
 \*Q-OTHER  
 \*R-OTHER  
 \*S-OTHER  
 \*T-OTHER  
 \*U-OTHER  
 \*V-OTHER  
 \*W-OTHER  
 \*X-OTHER  
 \*Y-OTHER  
 \*Z-OTHER

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/20/92

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 92-0629 SAMPLE NO. 69719 SAMPLE TYPE: SOIL  
 SOURCE: HERCULES INC  
 STATION ID: 55-02  
 PROG ELEM: NSF COLLECTED BY: C HELM  
 CITY: HATTIESBURG ST: MS  
 COLLECTION START: 06/24/92 1915 STOP: 00/00/00

CASE NO.: 18341 SAS NO.: D. NO.: DH69

ANALYTICAL RESULTS

ANALYTICAL RESULTS

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
12U	CHLOROMETHANE	12U	1,2-DICHLOROPROPANE
12U	BROMOMETHANE	12U	CIS-1,3-DICHLOROPROPENE
12U	VINYL CHLORIDE	12U	TRICHLOROETHENE (TRICHLOROETHYLENE)
12U	CHLOROETHANE	12U	DIBROMOCHLOROMETHANE
60U	METHYLENE CHLORIDE	12U	1,1,2-TRICHLOROETHANE
3000J	ACETONE	4J	BENZENE
12U	CARBON DISULFIDE	12U	TRANS-1,3-DICHLOROPROPENE
12U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	12U	BROMOFORM
12U	1,1-DICHLOROETHANE	830J	METHYL ISOBUTYL KETONE
12U	1,2-DICHLOROETHENE (TOTAL)	12U	METHYL BUTYL KETONE
12U	CHLOROFORM	12U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
12U	1,2-DICHLOROETHANE	12U	1,1,2,2-TETRACHLOROETHANE
80	METHYL ETHYL KETONE	2500	TOLUENE
12U	1,1,1-TRICHLOROETHANE	12U	CHLOROBENZENE
12U	CARBON TETRACHLORIDE	4J	ETHYL BENZENE
12U	BROMODICHLOROMETHANE	12U	STYRENE
		21	TOTAL XYLENES
		17	PERCENT MOISTURE

\*\*\*\*REMARKS\*\*\*\*

\*\*\*\*REMARKS\*\*\*\*

\*\*\*FOOTNOTES\*\*\*

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/20/92

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 92-0629 SAMPLE NO. 69723 SAMPLE TYPE: SOIL  
 SOURCE: HERCULES INC  
 STATION ID: SB-05  
 PROG ELEM: NSF COLLECTED BY: C HELM  
 CITY: HATIESBURG ST: MS  
 COLLECTION START: 06/25/92 0955 STOP: 00/00/00

CASE NO.: 18341 SAS NO.:  
 ANALYTICAL RESULTS ANALYTICAL RESULTS  
 UG/KG UG/KG

ANALYTICAL RESULTS	ANALYTICAL RESULTS
12U CHLOROMETHANE	12U 1,2-DICHLOROPROPANE
12U BROMOMETHANE	12U CIS-1,3-DICHLOROPROPENE
12U VINYL CHLORIDE	12U TRICHLOROETHENE (TRICHLOROETHYLENE)
12U CHLOROETHANE	12U DIBROMOCHLOROMETHANE
30U METHYLENE CHLORIDE	12U 1,1,2-TRICHLOROETHANE
30U ACETONE	12U BENZENE
12U CARBON DISULFIDE	12U TRANS-1,3-DICHLOROPROPENE
12U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	12U BROMOFORM
12U 1,1-DICHLOROETHANE	12U METHYL ISOBUTYL KETONE
12U 1,2-DICHLOROETHENE (TOTAL)	12U METHYL BUTYL KETONE
12U CHLOROFORM	12U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
12U 1,2-DICHLOROETHANE	12U 1,1,2,2-TETRACHLOROETHANE
12U METHYL ETHYL KETONE	12U TOLUENE
12U 1,1,1-TRICHLOROETHANE	12U CHLOROBENZENE
12U CARBON TETRACHLORIDE	12U ETHYL BENZENE
12U BROMODICHLOROMETHANE	12U STYRENE
	2J TOTAL XYLENES
	18 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/20/92

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 92-0629 SAMPLE NO. 69711 SAMPLE TYPE: SOIL  
 \*\*\* SOURCE: HERCULES INC  
 \*\*\* STATION ID: SS-01  
 \*\*\* PROG ELEM: NSF COLLECTED BY: C HELM  
 \*\*\* CITY: HATIESBURG ST: MS  
 \*\*\* COLLECTION START: 06/24/92 0855 STOP: 00/00/00

\*\*\* CASE NO.: 18341 SAS NO.: D. NO.: DH61  
 \*\*\* UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
11U	CHLOROMETHANE	11U	1,2-DICHLOROPROPANE
11U	BROMOMETHANE	11U	CIS-1,3-DICHLOROPROPENE
11U	VINYL CHLORIDE	11U	TRICHLOROETHENE (TRICHLOROETHYLENE)
11U	CHLOROETHANE	11U	DIBROMOCHLOROMETHANE
50U	METHYLENE CHLORIDE	11U	1,1,2-TRICHLOROETHANE
50U	ACETONE	11U	BENZENE
11U	CARBON DISULFIDE	11U	TRANS-1,3-DICHLOROPROPENE
11U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	11U	BROMOFORM
11U	1,1-DICHLOROETHANE	11U	METHYL ISOBUTYL KETONE
11U	1,2-DICHLOROETHENE (TOTAL)	11U	METHYL BUTYL KETONE
11U	CHLOROFORM	11U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
11U	1,2-DICHLOROETHANE	11U	1,1,2,2-TETRACHLOROETHANE
11U	METHYL ETHYL KETONE	11U	TOLUENE
11U	1,1,1-TRICHLOROETHANE	11U	CHLOROBENZENE
11U	CARBON TETRACHLORIDE	11U	ETHYL BENZENE
11U	BROMODICHLOROMETHANE	11U	STYRENE
		11U	TOTAL XYLENES
		11U	PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/20/92

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 92-0629 SAMPLE NO. 69710 SAMPLE TYPE: GROUNDWA  
 SOURCE: HERCULES INC STATION ID: TB-01  
 PROG ELEM: NSF COLLECTED BY: C HELM  
 CITY: HATIESBURG ST: MS  
 COLLECTION START: 06/24/92 0725 STOP: 00/00/00

CASE NO.: 18341 SAS NO.: D. NO.: DH60  
 UG/L UG/L ANALYTICAL RESULTS ANALYTICAL RESULTS

ANALYTICAL RESULTS	ANALYTICAL RESULTS
10U CHLOROMETHANE	10U 1,2-DICHLOROPROPANE
10U BROMOMETHANE	10U CIS-1,3-DICHLOROPROPENE
10U VINYL CHLORIDE	10U TRICHLOROETHENE (TRICHLOROETHYLENE)
10U CHLOROETHANE	10U DIBROMOCHLOROMETHANE
10U METHYLENE CHLORIDE	10U 1,1,2-TRICHLOROETHANE
10U ACETONE	10U BENZENE
10U CARBON DISULFIDE	10U TRANS-1,3-DICHLOROPROPENE
10U 1,1-DICHLOROETHANE (1,1-DICHLOROETHYLENE)	10U BROMOFORM
10U 1,1-DICHLOROETHANE	10U METHYL ISOBUTYL KETONE
10U 1,2-DICHLOROETHANE (TOTAL)	10U METHYL BUTYL KETONE
10U CHLOROFORM	10U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10U 1,2-DICHLOROETHANE	10U 1,1,2,2-TETRACHLOROETHANE
10U METHYL ETHYL KETONE	10U TOLUENE
10U 1,1,1-TRICHLOROETHANE	10U CHLOROBENZENE
10U CARBON TETRACHLORIDE	10U ETHYL BENZENE
10U BROMODICHLOROMETHANE	10U STYRENE
2J	10U TOTAL XYLENES

\*\*\*\*REMARKS\*\*\*\*

\*\*\*\*REMARKS\*\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
 \*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/20/92

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 92-0629 SAMPLE NO. 69715 SAMPLE TYPE: SURFACEWA  
 \*\*\* SOURCE: HERCULES INC STATION ID: SW-01  
 \*\*\* COLLECTION START: 06/24/92 1610 STOP: 00/00/00  
 \*\*\* CASE NO.: 18341 SAS NO.: D. NO.: DH65  
 \*\*\* UG/L ANALYTICAL RESULTS UG/L ANALYTICAL RESULTS

ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS	UG/L
CHLOROMETHANE	100	1,2-DICHLOROPROPANE	100
BROMOMETHANE	100	CIS-1,3-DICHLOROPROPENE	100
VINYL CHLORIDE	100	TRICHLOROETHENE (TRICHLOROETHYLENE)	100
CHLOROETHANE	100	DIBROMOCHLOROMETHANE	100
METHYLENE CHLORIDE	100	1,1,2-TRICHLOROETHANE	100
ACETONE	100	BENZENE	100
CARBON DISULFIDE	100	TRANS-1,3-DICHLOROPROPENE	100
1,1-DICHLOROETHANE	100	BROMOFORM	100
1,2-DICHLOROETHANE (TOTAL)	100	METHYL ISOBUTYL KETONE	100
CHLOROFORM	100	METHYL BUTYL KETONE	100
1,2-DICHLOROETHANE	100	TETRACHLOROETHENE (TETRACHLOROETHYLENE)	100
METHYL ETHYL KETONE	100	1,1,2,2-TETRACHLOROETHANE	100
1,1,1-TRICHLOROETHANE	100	TOLUENE	100
CARBON TETRACHLORIDE	100	CHLOROBENZENE	100
BROMODICHLOROMETHANE	100	ETHYL BENZENE	100
		STYRENE	100
		TOTAL XYLENES	100

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/20/92

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 92-0629 SAMPLE NO. 69716 SAMPLE TYPE: SURFACEWA  
 \*\*\* SOURCE: HERCULES INC STATION ID: SW-2  
 \*\*\* CASE NO.: 18341  
 \*\*\* D. NO.: DH66  
 \*\*\* UG/L

PROG ELEM: NSF COLLECTED BY: C HELM  
 CITY: HATTIESBURG ST: MS  
 COLLECTION START: 06/24/92 1700 STOP: 00/00/00

ANALYTICAL RESULTS  
 ANALYTICAL RESULTS

UG/L	SAS NO.:	D. NO.:	ANALYTICAL RESULTS
100			CHLOROMETHANE
100			BROMOMETHANE
100			VINYL CHLORIDE
100			CHLOROETHANE
100			METHYLENE CHLORIDE
100			ACETONE
100			CARBON DISULFIDE
100			1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
100			1,1-DICHLOROETHANE
100			1,2-DICHLOROETHENE (TOTAL)
100			CHLOROFORM
100			1,2-DICHLOROETHANE
100			METHYL ETHYL KETONE
100			1,1,1-TRICHLOROETHANE
100			CARBON TETRACHLORIDE
100			BROMODICHLOROMETHANE
100			1,2-DICHLOROPROPANE
100			CIS-1,3-DICHLOROPROPENE
100			TRICHLOROETHENE (TRICHLOROETHYLENE)
100			DIBROMOCHLOROMETHANE
100			1,1,2-TRICHLOROETHANE
100			BENZENE
100			TRANS-1,3-DICHLOROPROPENE
100			BROMOFORM
100			METHYL ISOBUTYL KETONE
100			METHYL BUTYL KETONE
100			TETRACHLOROETHENE (TETRACHLOROETHYLENE)
100			1,1,2,2-TETRACHLOROETHANE
100			TOLUENE
100			CHLOROBENZENE
100			ETHYL BENZENE
100			STYRENE
100			TOTAL XYLENES

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
 \*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/20/92

PURGEABLE ORGANICS DATA REPORT

\*\*\*  
 \*\* PROJECT NO. 92-0629 SAMPLE NO. 69717 SAMPLE TYPE: SOIL  
 \*\* SOURCE: HERCULES INC  
 \*\* STATION ID: SD-02  
 \*\*  
 \*\* CASE NO.: 18341  
 \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
 \*\* UG/KG

PROG ELEM: NSF COLLECTED BY: C HELM  
 CITY: HATIESBURG ST: MS  
 COLLECTION START: 06/24/92 1730 STOP: 00/00/00

D. NO.: DH67  
 UG/KG ANALYTICAL RESULTS

ANALYTICAL RESULTS

ANALYTICAL RESULTS	UG/KG
CHLOROMETHANE	13U
BROMOMETHANE	13U
VINYL CHLORIDE	13U
CHLOROETHANE	13U
METHYLENE CHLORIDE	80U
ACETONE	13U
CARBON DISULFIDE	13U
1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	13U
1,1-DICHLOROETHANE	13U
1,2-DICHLOROETHENE (TOTAL)	13U
CHLOROFORM	13U
1,2-DICHLOROETHANE	13U
METHYL ETHYL KETONE	13U
1,1,1-TRICHLOROETHANE	13U
CARBON TETRACHLORIDE	13U
BROMODICHLOROMETHANE	13U
1,2-DICHLOROPROPANE	13U
CIS-1,3-DICHLOROPROPENE	13U
TRICHLOROETHENE (TRICHLOROETHYLENE)	13U
DIBROMOCHLOROMETHANE	13U
1,1,2-TRICHLOROETHANE	13U
BENZENE	13U
TRANS-1,3-DICHLOROPROPENE	13U
BROMOFORM	13U
METHYL ISOBUTYL KETONE	13U
METHYL BUTYL KETONE	13U
TETRACHLOROETHENE (TETRACHLOROETHYLENE)	13U
1,1,2,2-TETRACHLOROETHANE	13U
TOLUENE	13U
CHLOROBENZENE	13U
ETHYL BENZENE	13U
STYRENE	13U
TOTAL XYLENES	13U
PERCENT MOISTURE	21

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/20/92

PURGEABLE ORGANICS DATA REPORT

\*\*\*  
 \*\* PROJECT NO. 92-0629 SAMPLE NO. 69721 SAMPLE TYPE: SOIL  
 \*\* SOURCE: HERCULES INC  
 \*\* STATION ID: SS-04  
 \*\*  
 \*\* CASE NO.: 18341 SAS NO.: \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\* \*\*  
 \*\* UG/KG ANALYTICAL RESULTS

PROG ELEM: NSF COLLECTED BY: C. HELM  
 CITY: HATTIESBURG ST: MS  
 COLLECTION START: 06/25/92 0845 STOP: 00/00/00

D. NO.: DH71  
 ANALYTICAL RESULTS  
 UG/KG

10U CHLOROMETHANE	10U 1,2-DICHLOROPROPANE
10U BROMOMETHANE	10U CIS-1,3-DICHLOROPROPENE
10U VINYL CHLORIDE	10U TRICHLOROETHENE (TRICHLOROETHYLENE)
10U CHLOROETHANE	10U DIBROMOCHLOROMETHANE
60U METHYLENE CHLORIDE	10U 1,1,2-TRICHLOROETHANE
10U ACETONE	10U BENZENE
10U CARBON DISULFIDE	10U TRANS-1,3-DICHLOROPROPENE
10U 1,1-DICHLOROETHANE (1,1-DICHLOROETHYLENE)	10U BROMOFORM
10U 1,1-DICHLOROETHANE	10U METHYL ISOBUTYL KETONE
10U 1,2-DICHLOROETHENE (TOTAL)	10U METHYL BUTYL KETONE
10U CHLOROFORM	10U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10U 1,2-DICHLOROETHANE	10U 1,1,1,2,2-TETRACHLOROETHANE
10U METHYL ETHYL KETONE	10U TOLUENE
10U 1,1,1-TRICHLOROETHANE	10U CHLOROETHYLENE
10U CARBON TETRACHLORIDE	10U ETHYL BENZENE
10U BROMODICHLOROMETHANE	10U STYRENE
	10U TOTAL XYLENES
	2 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/20/92

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 92-0629  
SOURCE: HERCULES INC  
STATION ID: SS-05

SAMPLE NO. 69722  
SAMPLE TYPE: SOIL

PROG ELEM: NSF  
CITY: HATTIESBURG  
COLLECTION START: 06/25/92 0945  
STOP: 00/00/00

CASE NO.: 18341

SAS NO.:

D. NO.: DH72

ANALYTICAL RESULTS

ANALYTICAL RESULTS

11U CHLOROMETHANE  
11U BROMOMETHANE  
11U VINYL CHLORIDE  
11U CHLOROETHANE  
30U METHYLENE CHLORIDE  
30U ACETONE  
11U CARBON DISULFIDE  
11U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)  
11U 1,1-DICHLOROETHANE  
11U 1,2-DICHLOROETHENE (TOTAL)  
11U CHLOROFORM  
11U 1,2-DICHLOROETHANE  
11U METHYL ETHYL KETONE  
11U 1,1,1-TRICHLOROETHANE  
11U CARBON TETRACHLORIDE  
11U BROMODICHLOROMETHANE

11U 1,2-DICHLOROPROPANE  
11U CIS-1,3-DICHLOROPROPENE  
11U TRICHLOROETHENE (TRICHLOROETHYLENE)  
11U DIBROMOCHLOROMETHANE  
11U 1,1,2-TRICHLOROETHANE  
11U BENZENE  
11U TRANS-1,3-DICHLOROPROPENE  
11U BROMOFORM  
11U METHYL ISOBUTYL KETONE  
11U METHYL BUTYL KETONE  
11U TETRACHLOROETHENE (TETRACHLOROETHYLENE)  
11U 1,1,2,2-TETRACHLOROETHANE  
11U TOLUENE  
11U CHLOROBENZENE  
11U ETHYL BENZENE  
11U STYRENE  
11U TOTAL XYLENES  
6 PERCENT MOISTURE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT  
\*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

07/31/92

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 92-0629 SAMPLE NO. 69726 SAMPLE TYPE: GROUNDWA  
\*\*\* SOURCE: HERCULES INC  
\*\*\* STATION ID: MW-81  
\*\*\* CASE NO.: 18341  
\*\*\* SAS NO.:  
\*\*\*  
\*\*\* COLLECTED BY: C HELM  
\*\*\* ST: MS  
\*\*\* COLLECTION START: 06/25/92 1330 STOP: 00/00/00  
\*\*\* D. NO.: DH76 MD NO: DC76  
\*\*\*

RESULTS UNITS PARAMETER  
TOU UG/L CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*NA-NOT ANALYZED  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

# GROUNDWATER

# ORGANICS

08/20/92

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

### PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 92-0629 SAMPLE NO. 69710 SAMPLE TYPE: GROUNDWA  
 \*\* SOURCE: HERCULES INC  
 \*\* STATION ID: TB-01  
 \*\* CASE NO.: 18341  
 \*\* SAS NO.:  
 \*\* D. NO.: DH60  
 \*\* ANALYTICAL RESULTS UG/L  
 \*\* ANALYTICAL RESULTS UG/L  
 \*\* COLLECTED BY: C HELM  
 \*\* CITY: HATTIESBURG ST: MS  
 \*\* COLLECTION START: 06/24/92 0725 STOP: 00/00/00

10U CHLOROMETHANE  
 10U BROMOMETHANE  
 10U VINYL CHLORIDE  
 10U CHLOROETHANE  
 10U METHYLENE CHLORIDE  
 10U ACETONE  
 10U CARBON DISULFIDE  
 10U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)  
 10U 1,1-DICHLOROETHANE  
 10U 1,2-DICHLOROETHENE (TOTAL)  
 10U CHLOROFORM  
 10U 1,2-DICHLOROETHANE  
 10U METHYL ETHYL KETONE  
 10U 1,1,1-TRICHLOROETHANE  
 10U CARBON TETRACHLORIDE  
 10U BROMODICHLOROMETHANE  
 2J

10U 1,2-DICHLOROPROPANE  
 10U CIS-1,3-DICHLOROPROPENE  
 10U TRICHLOROETHENE (TRICHLOROETHYLENE)  
 1J DIBROMOCHLOROMETHANE  
 10U 1,1,2-TRICHLOROETHANE  
 10U BENZENE  
 10U TRANS-1,3-DICHLOROPROPENE  
 10U BROMOFORM  
 10U METHYL ISOBUTYL KETONE  
 10U METHYL BUTYL KETONE  
 10U TETRACHLOROETHENE (TETRACHLOROETHYLENE)  
 10U 1,1,2,2-TETRACHLOROETHANE  
 10U TOLUENE  
 10U CHLOROBENZENE  
 10U ETHYL BENZENE  
 10U STYRENE  
 10U TOTAL XYLENES

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
 \*A-AVERAGE VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
 \*K-ACTUAL VALUE WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTIFICATION LIMIT.  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTIFICATION LIMIT.  
 \*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.  
 \*NA-NOT ANALYZED  
 \*NAI-INTERFERENCES  
 \*J-ESTIMATED VALUE  
 \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

07/31/92

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 92-0629 SAMPLE NO. 69717 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: HERCULES INC  
\*\*\* STATION ID: SD-02  
\*\*\* CASE NO.: 18341  
\*\*\* SAS NO.:  
\*\*\*  
\*\*\* PROG ELEM: NSF COLLECTED BY: C HELM  
\*\*\* CITY: HATIESBURG ST: MS  
\*\*\* COLLECTION START: 06/24/92 1730 STOP: 00/00/00  
\*\*\* D. NO.: DH67 MD NO: DC67  
\*\*\*

RESULTS UNITS PARAMETER  
.71U MG/KG CYANIDE

\*\*\* FOOTNOTES \*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.





SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

07/31/92

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 92-0629 SAMPLE NO. 69718 SAMPLE TYPE: SOIL \*\*\*  
\*\*\* SOURCE: HERCULES, INC \*\*\*  
\*\*\* STATION ID: SD-03 \*\*\*  
\*\*\* CASE NO.: 18341 SAS NO.: \*\*\*  
\*\*\*  
\*\*\* PROG ELEM: NSF COLLECTED BY: C HELM \*\*\*  
\*\*\* CITY: HATIESBURG ST: MS \*\*\*  
\*\*\* COLLECTION START: 06/24/92 1815 STOP: 00/00/00 \*\*\*  
\*\*\* D. NO.: DH68 MD NO: DC68 \*\*\*

RESULTS UNITS PARAMETER  
2.1 MG/KG CYANIDE

\*\*\* FOOTNOTES \*\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*N1-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

08/10/92

SAMPLE AND ANALYSTS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT

\*\*\* PROJECT NO. 92-0629 SAMPLE NO. 69725 SAMPLE TYPE: SOIL

\*\*\* SOURCE: HERCULES INC

\*\*\* STATION ID: SD-04

\*\*\* CASE NUMBER: 18341

SAS NUMBER: 18341

\*\*\* PROG ELEM: NSF COLLECTED BY: C HELM

\*\*\* CITY: HATTIESBURG ST: MS

\*\*\* COLLECTION START: 06/25/92 1245 STOP: 00/00/00

\*\*\* MD NUMBER: DC75

ANALYTICAL RESULTS

ANALYTICAL RESULTS

MG/KG	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	TIN	VANADIUM	ZINC	PERCENT MOISTURE
2900J														13J											
20U														.21											
4U														16											
18J														140											
.34U														.68U											
1U														2.7U											
680														290U											
7.4J														1U											
1.7U														NA											
27														9.5											
4300J														110J											
30J														41											
120																									

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE

\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN

\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

\*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

\*NA-NOT ANALYZED

\*N1-INTERFERENCES

\*J-ESTIMATED VALUE

\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA. 07/31/92

SPECIFIED ANALYSIS DATA REPORT  
\*\*\* PROJECT NO. 92-0629 SAMPLE NO. 69725 SAMPLE TYPE: SOIL  
\*\*\* SOURCE: HERCULES INC  
\*\*\* STATION ID: SD-04  
\*\*\* CASE NO.: 18341 SAS NO.:  
\*\*\*  
\*\*\* PROG ELEM: NSF COLLECTED BY: C HELM  
\*\*\* CITY: HATIESBURG ST: MS  
\*\*\* COLLECTION START: 06/25/92 1245 STOP: 00/00/00  
\*\*\* D. NO.: DH75 MD NO: DC75  
\*\*\*

RESULTS UNITS PARAMETER  
.85U MG/KG CYANIDE

\*\*\*FOOTNOTES\*\*\*  
\*A-AVERAGE VALUE  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*NA-NOT ANALYZED  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

GROUND WATER IN ORGANICS

08/10/92

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT  
PROJECT NO. 92-0629  
SOURCE: HERCULES INC  
STATION ID: TB-01  
CASE NUMBER: 18341  
SAMPLE NO. 69710  
SAMPLE TYPE: GROUNDWA  
SAS NUMBER:  
PROG ELEM: NSF  
CITY: HATTIESBURG  
COLLECTION START: 06/24/92 0725  
STOP: 00/00/00  
MD NUMBER: DC60

COLLECTED BY: C HELM  
ST: MS

ANALYTICAL RESULTS

UG/L	UG/L	ANALYTICAL RESULTS
120U	2U	MANGANESE
14U	.20U	MERCURY
4U	8U	NICKEL
14U	400U	POTASSIUM
1U	2U	SELENIUM
2U	3UJ	SILVER
400U	500U	SODIUM
3U	3UJ	THALLIUM
6U	NA	TIN
40U	4U	VANADIUM
2UJ	3U	ZINC
390U		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
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\*K-ACTUAL VALUE WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT  
\*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.  
\*NA-NOT ANALYZED  
\*NAI-INTERFERENCES  
\*J-ESTIMATED VALUE  
\*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN



08/10/92

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT  
PROJECT NO. 92-0629  
SOURCE: HERCULES INC  
STATION ID: TW-01  
CASE NUMBER: 18341  
SAMPLE NO. 69713  
SAMPLE TYPE: GROUNDWA  
SAS NUMBER: 18341  
PROG ELEM: NSF  
CITY: HATTIESBURG  
COLLECTION START: 06/24/92 1045  
MD NUMBER: DC63  
COLLECTED BY: C HELM  
ST: MS  
STOP: 00/00/00

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/L		UG/L	
36000	ALUMINIUM	300	MANGANESE
140	ANTIMONY	.45	MERCURY
40	ARSENIC	39	NICKEL
1800	BARIUM	3200	POTASSIUM
11	BERYLLIUM	200	SELENIUM
20	CADMIUM	30J	SILVER
24000	CALCIUM	21000	SODIUM
94	CHROMIUM	30J	THALLIUM
19	COBALT	NA	TIN
23	COPPER	160	VANADIUM
15000	IRON	160	ZINC
380J	LEAD		
9000	MAGNESIUM		

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

- \*A-AVERAGE VALUE
- \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
- \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
- \*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
- \*NA-NOT ANALYZED
- \*NAT-INTERFERENCES
- \*J-ESTIMATED VALUE
- \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL KNOWN TO BE GREATER THAN VALUE GIVEN
- \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN







SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/10/92

METALS DATA REPORT  
 \*\*\* PROJECT NO. 92-0629  
 \*\*\* SOURCE: HERCULES INC  
 \*\*\* STATION ID: TW-05  
 \*\*\* CASE NUMBER: 18341  
 \*\*\* SAS NUMBER: 18341  
 \*\*\* SAMPLE NO. 69724 SAMPLE TYPE: GROUNDWA  
 \*\*\* PROG ELEM: NSF COLLECTED BY: C HELM  
 \*\*\* CITY: HATTESBURG ST: MS  
 \*\*\* COLLECTION START: 06/25/92 1050 STOP: 00/00/00  
 \*\*\* MD NUMBER: DC74

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/L		UG/L	
77000J	ALUMINIUM	4100J	MANGANESE
140J	ANTIMONY	53J	MERCURY
40J	ARSENIC	4400J	NICKEL
3600J	BARIUM	200J	POTASSIUM
21J	BERYLLIUM	30J	SELENIUM
3J	CADMIUM	110000J	SILVER
45000J	CALCIUM	30J	SODIUM
40J	CHROMIUM	NA	THALLIUM
59J	COBALT	100J	TIN
140J	COPPER	170J	VANADIUM
47000J	IRON		ZINC
380J	LEAD		
17000J	MAGNESIUM		

\*\*\*REMARKS\*\*\*  
 SAMPLE IMPROPERLY PRESERVED

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*  
 \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*A-AVERAGE VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*K-ACTUAL VALUE WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
 \*U-MATERIAL THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.  
 \*R-QC INDICATES THAT DATA UNUSABLE.

08/10/92

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT

\*\*\* PROJECT NO. 92-0629 SAMPLE NO. 69726 SAMPLE TYPE: GROUNDWA

\*\*\* SOURCE: HERCULES INC

\*\*\* STATION ID: MW-81

\*\*\* CASE NUMBER: 18341 SAS NUMBER:

\*\*\* COLLECTED BY: C HELM

\*\*\* ST: MS

\*\*\* COLLECTION START: 06/25/92 1330 STOP: 00/00/00

\*\*\* MD NUMBER: DC76

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/L		UG/L	
3200	ALUMINIUM	451	MANGANESE
140	ANTIMONY	.20U	MERCURY
12	ARSENIC	8U	NICKEL
320	BARIIUM	400	POTASSIUM
1U	BERYLLIUM	2U	SELENIUM
2U	CADMIUM	3UJ	SILVER
27000	CALCIUM	17000	SODIUM
3U	CHROMIUM	3UJ	THALLIUM
6U	COBALT	NA	TIN
7	COPPER	4U	VANADIUM
530	IRON	110	ZINC
6J	LEAD		
6200	MAGNESIUM		

\*\*\* FOOTNOTES \*\*\*

- \*A-AVERAGE VALUE
- \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
- \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
- \*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
- \*NA-NOT ANALYZED
- \*NAI-INTERFERENCES
- \*J-ESTIMATED VALUE
- \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
- \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN