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MONITORED NATURAL ATTENUATION EFFECTIVENESS 2009 ANNUAL PROGRESS REPORT SOLID WASTE MANAGEMENT UNIT 2 (SWMU 2) SOUTHSIDE LANDFILL
MILLINGTON SUPPACT TN
07/10/2009
ENSAFE

MONITORED NATURAL ATTENUATION EFFECTIVENESS
2009 ANNUAL PROGRESS REPORT
SWMU 2 — SOUTHSIDE LANDFILL

NAVAL SUPPORT ACTIVITY MID-SOUTH
MILLINGTON, TENNESSEE

Prepared for:

Department of the Navy
Naval Facilities Engineering Command, Midwest
Great Lakes, Illinois

Submitted by:

Spectra Tech, Inc.
132 Jefferson Court
Oak Ridge, Tennessee 37830
(865) 483-7210
www.spectratechinc.com

Prepared by:

EnSafe Inc.
5724 Summer Trees Drive
Memphis, Tennessee 38134
(901) 372-7962
(800) 588-7962
www.ensafe.com

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Appendix C Groundwater Sampling Forms

List of Acronyms

ACL	alternative concentration limit
BCT	Base Cleanup Team
1,2-DCE	1,2-dichloroethylene
DO	dissolved oxygen
mg/L	milligram per liter
MNA	monitored natural attenuation
mV	millivolts
NSA	Naval Support Activity
ORP	oxidation-reduction potential
RCRA	Resource Conservation and Recovery Act
SWMU	Solid Waste Management Unit
TCE	trichloroethylene
TOC	total organic carbon
µg/L	microgram per liter
VC	vinyl chloride
VOC	volatile organic compound

1.0 INTRODUCTION

This progress report provides an update of the activities outlined in the *Monitored Natural Attenuation Work Plan* (EnSafe, June 2005) for Solid Waste Management Unit (SWMU) 2, also known as the Southside Landfill, on the Southside of Naval Support Activity (NSA) Mid-South. Figure 1-1 shows the site relative to the base boundaries. The *SWMU 2 Corrective Measures Study Report* (EnSafe, February 2004) recommended monitored natural attenuation (MNA) as the site remedy to address the trichloroethylene (TCE) contamination in the deep alluvial groundwater near the southeast corner of the landfill. This report includes data from the May and November 2008 semi-annual sampling events. Figure 1-2 shows the TCE concentrations detected during the November 2008 sampling event.

In light of the difficulty associated with identifying and treating a landfill source area, MNA was considered the best remedial option for what initially appeared to be a limited amount of contaminant mass originating from the landfill. However, increases in TCE concentrations in May 2007 led to re-evaluating MNA and whether it is an appropriate site remedy. Given the overall lack of discernable decreasing contaminant trends at that time, the Base Cleanup Team (BCT) recommended that a site-specific alternative concentration limit (ACL) be developed for TCE that is protective of the potential ecological receptors associated with adjacent Big Creek drainage canal — the surface water body receiving SWMU 2 groundwater. An *ACL Technical Memorandum* was submitted in June 2008 for regulatory review and approval. Regulatory review is pending finalization of a U.S. Geological Survey publication cited in the report. Upon approval, groundwater and surface water monitoring will continue semi-annually; however, the MNA parameter monitoring will be discontinued and volatile organic compounds (VOCs) detected in subsequent samples will be compared to the site-specific ACL benchmarks.

Section 2.0 of this report summarizes field activities for the period. Results of the May and November 2008 sampling events are presented and analyzed in Section 3.0. All figures referenced herein are presented at the end of their corresponding section.

Figure 1-1
SWMU 2 Location Map
Interim Measures Progress Report
NSA Mid-South
Millington, TN

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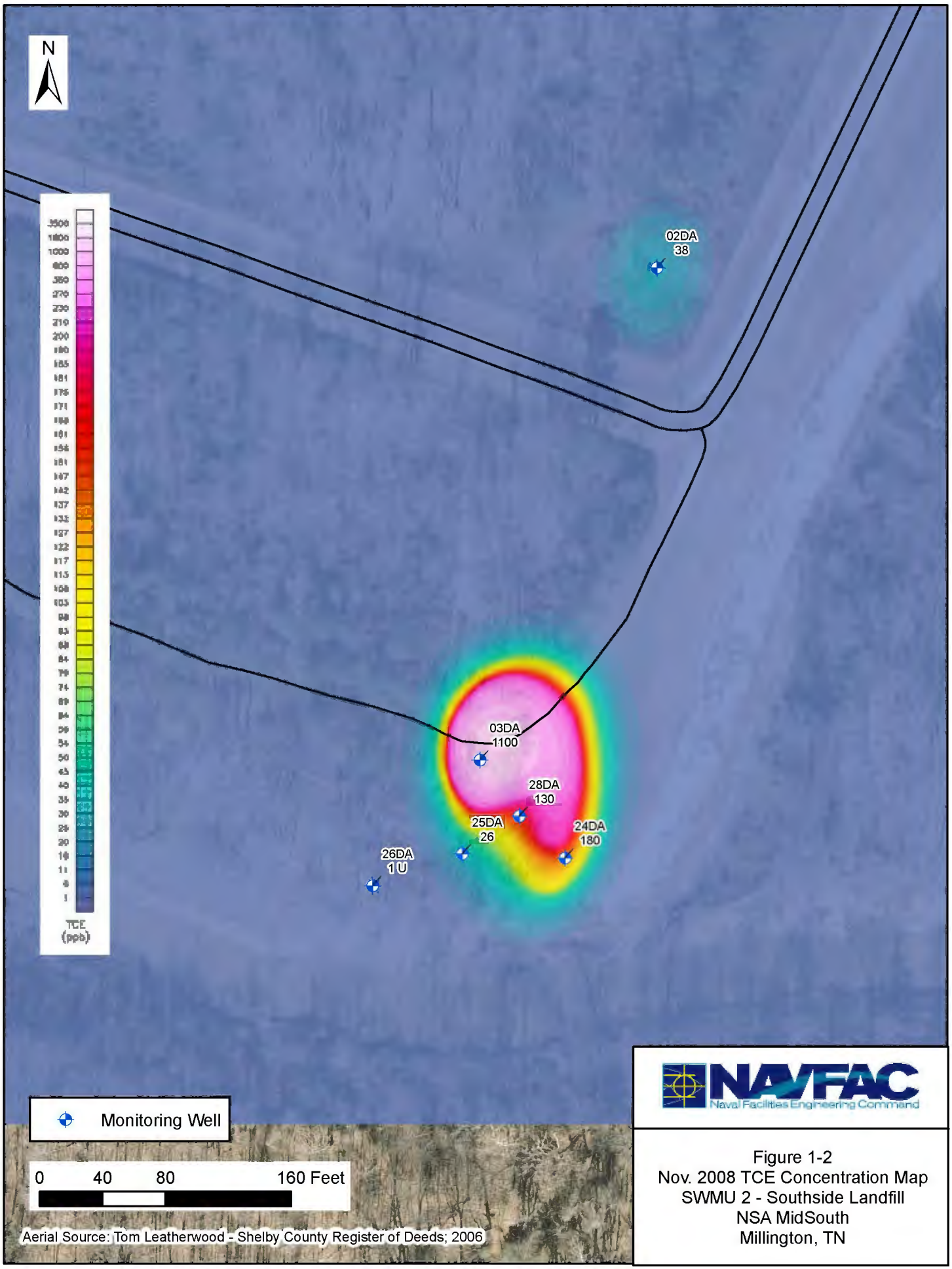

Figure 1-2
Nov. 2008 TCE Concentration Map
SWMU 2 - Southside Landfill
NSA MidSouth
Millington, TN

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2.0 SUMMARY OF FIELD ACTIVITIES

2.1 Semi-Annual Groundwater Sampling

Groundwater samples are being collected and analyzed semi-annually from six monitoring wells (002G02DA, 002G03DA, 002G24DA, 002G25DA, 002G26DA, and 002G28DA; Figure 2-1) at the southeast corner of SWMU 2 to monitor the natural attenuation of TCE detected there during and since the RCRA Facility Investigation (EnSafe, 2001). To verify whether VOCs are impacting the surface water in Big Creek Drainage Canal, surface water samples are collected semiannually at three locations in the creek — at a central location directly downgradient of the southeast corner of SWMU 2 and monitoring well 002G24DA, and at a single location upstream (east) and downstream (west) of the well. Sample locations are shown on Figure 2-1. Surface water samples are analyzed for VOCs only while groundwater samples are analyzed for VOCs and the field parameters/analytes listed in Table 2-1. The field parameters are measured using standard field meters, instruments, and test kits that are calibrated in accordance with manufacturer's instructions.

Water levels are measured in the six selected monitoring wells in the southeast corner of SWMU 2 before sampling occurs. Groundwater elevations from these monitoring wells were calculated from the measurements and used to generate the potentiometric maps for the May 2008 and November 2008 sampling events (Figures 2-2 and 2-3). Groundwater elevation data from both the May 2008 and November 2008 sampling events have been consistent with historical data, indicating groundwater flow to the south and southeast, towards the Big Creek Drainage Canal. Trend graphs presented in Section 3.0 indicate slight increases in groundwater levels during the May 2008 compared to 2007, while the November 2008 groundwater data is consistent with the previous year.

Table 2-1
Monitored Natural Attenuation Annual Sampling Parameters/Analytes

Parameters/Analytes	Laboratory or Field Method
VOCs	SW8260B
Total Organic Carbon (TOC)	SW9060
hydrogen, methane, ethane, and ethene	8015MOD (bubble-strip method)
dissolved oxygen (DO)	field — YSI 556
oxidation-reduction potential (ORP)	field — YSI 556
pH, temperature, conductivity, and turbidity	field — YSI 556 field — LaMotte 2020e
alkalinity, carbon dioxide, and chloride	field — Hach field kits
ferrous iron, sulfate, and sulfide	field — Hach 2400 spectrophotometer

Figure 2-1
Monitoring Well and Surface-Water Sample Locations
SWMU 2 - Southside Landfill
NSA MidSouth
Millington, TN

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Figure 2-2
May 2008 Deep Alluvium
Potentiometric Map
SWMU 2 - Southside Landfill
NSA MidSouth
Millington, TN

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Figure 2-3
November 2008 Deep Alluvium
Potentiometric Map
SWMU 2 - Southside Landfill
NSA MidSouth
Millington, TN

4/1/2009 D:\projects\NsaMidSouth\arcgis_projects\swmu_2_piezo_1108.mxd

3.0 RESULTS AND ANALYSIS

3.1 Groundwater Results

Trend graphs for monitoring wells 002G02DA, 002G03DA, 002G24DA, 002G25DA, 002G26DA, and 002G28DA have been prepared for VOCs (TCE, cis-1,2-dichloroethylene [DCE], and vinyl chloride [VC]) and select geochemical data for both sampling events and are presented in Figures 3-1 through 3-6. Complete analytical results from the May 2008 and November 2008 sampling events are included in Appendix A. Tables summarizing the historical geochemical and VOC data are included in Appendix B. These data were used to estimate the potential for natural biodegradation and evaluate the effectiveness of MNA at SWMU 2. Appendix C contains the groundwater sampling forms and water quality parameters collected during well purging activities.

- TCE concentrations decreased significantly in groundwater samples collected from monitoring wells 002G03DA (40%) and 002G28DA (70%) during 2008. The November 2008 TCE concentrations are the lowest concentrations quantified since September 2005 (Figures 3-2 and 3-6). TCE concentrations in other monitoring wells (002G02DA, 002G24DA, 002G25DA, and 002G26DA) remain comparable to historical levels (Figures 3-1, 3-3, 3-4, and 3-5).

- Cis-1,2-DCE concentrations increased in groundwater samples collected from monitoring well 002G28DA, nearly doubling during 2008 to 1,600 micrograms per liter (µg/L). A similar large-scale increase in cis-1,2-DCE concentrations was quantified in groundwater samples collected from monitoring well 002G24DA, with concentrations increasing to 2,000 µg/L in November 2008. In monitoring well 002G03DA, maximum cis-1,2-DCE concentrations were quantified in May 2008 at an estimated 2,800 µg/L.

- VC concentrations appear to be rising in groundwater samples collected from monitoring wells 002G02DA, 002G24DA, and 002G28DA, suggesting reduction of cis-1,2-DCE may be occurring.

Geochemical data (Table B-2 in Appendix B) suggest that conditions within the aquifer are variable:

- ORP measurements in samples collected in 2008 ranged from -54 to -185 milli-volts and suggest anaerobic conditions are occurring. Downward trends in ORP during 2008 in 002G02DA and 002G24DA suggest the aquifer is becoming increasingly anaerobic in this area.

- DO measurements in 2008 generally correlate with ORP, with readings less than 1 milligram per liter (mg/L).

- Ferrous iron is quantified at concentrations typically greater than 1 mg/L in samples collected from wells, confirming that aquifer conditions are at least mildly anaerobic.

- Hydrogen concentrations showed increases from May 2008 in all monitoring wells tested for the November 2008 event, suggesting the aquifer is strongly methanogenic (e.g., hydrogen concentrations exceed 5 nanomolar).

- Methane concentrations have increased in all monitoring wells to levels consistent with 2005/2006 data, suggesting methanogenic microbes are active in the subsurface and are likely the result of the landfill contents. These data correlate with hydrogen results from November 2008. As seen elsewhere, methane concentrations between 1,000 and 5,000 µg/L tend to indicate aquifer conditions are optimal for reductive dechlorination.

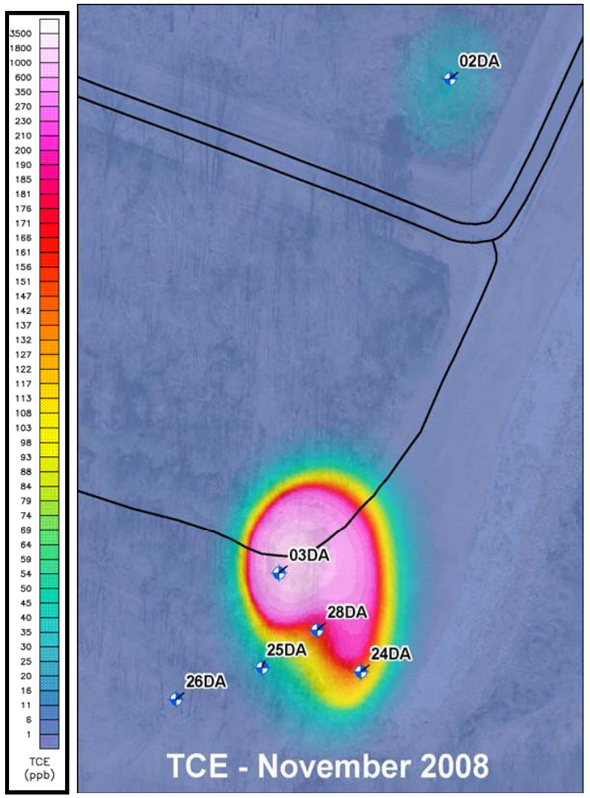
- Ethene and ethane concentrations have risen by as much as an order-of-magnitude in groundwater samples collected from monitoring wells 002G02DA, 002G24DA, and 002G28DA, suggesting that reduction from VC is ongoing.

TOC concentrations in samples collected from all monitoring wells sampled in 2008 are generally low (less than 5 mg/L).[1] Relatively consistent TOC concentrations since monitoring began in 2001 suggest that leachate from landfill wastes may be affecting groundwater downgradient of the landfill over the long term, and may continue to provide low levels of TOC. Monitoring data indicate that sulfate concentrations are negligible in most SWMU 2 monitoring wells, suggesting that reductive dechlorination via sulfate reduction is not a primary mechanism.

3.2 Surface Water Results

No VOCs were detected in the three surface water samples collected in May 2008 from the Big Creek Drainage Canal. Surface water samples collected in November 2008 showed low, estimated acetone and chloromethane detections. Acetone is a common laboratory artifact. Chloromethane has not been associated with groundwater contamination at SWMU 2 and it was detected upgradient of the landfill.

[1] U.S. Environmental Protection Agency's 1998 guidance for MNA ranks TOC concentrations greater than 20 mg/L as conducive to reductive dechlorination.



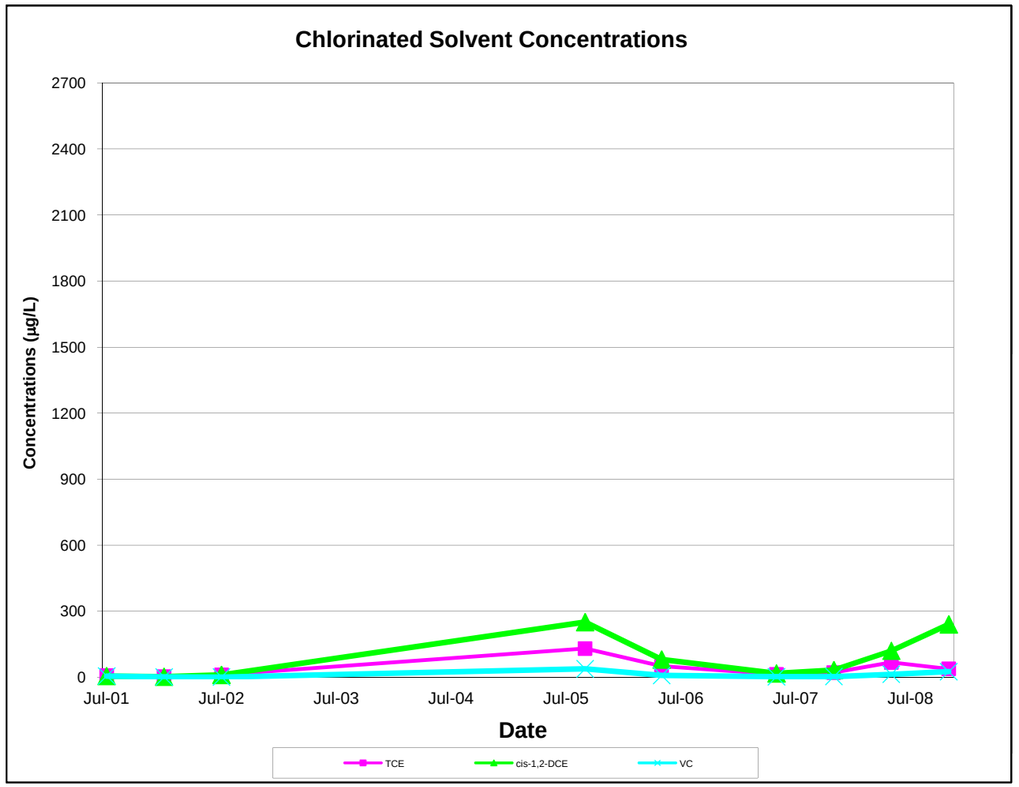
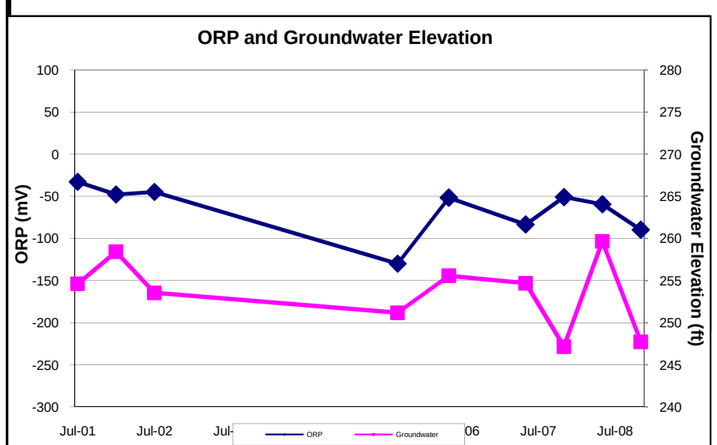


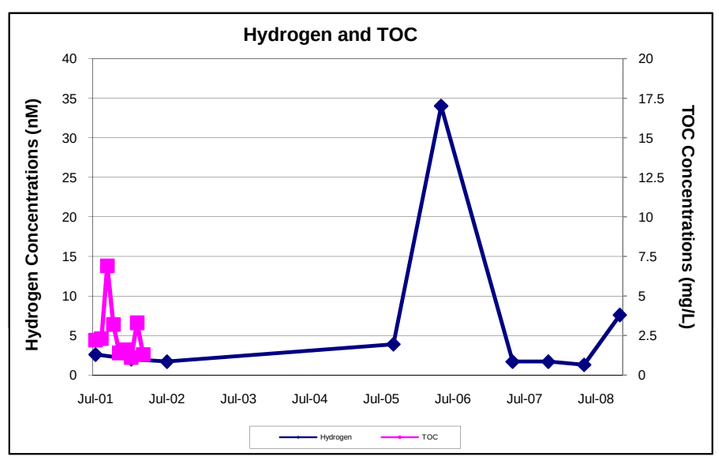
Figure 3-1
SWMU 2:
MW 002G02DA

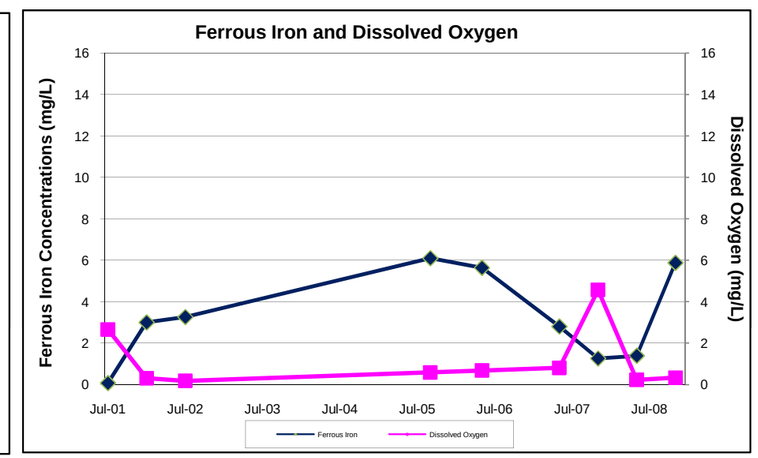
Date	Contaminants (µg/L)		
	TCE	cis-1,2-DCE	VC
Jul-01	7	5	5 U
Jan-02	2	2	1 U
Jul-02	11	10	0.5
Sep-05	130	250	38
May-06	50	80	8
May-07	13	17	2 J
Nov-07	21	32	3
May-08	67	120 J	13
Nov-08	38	240	25

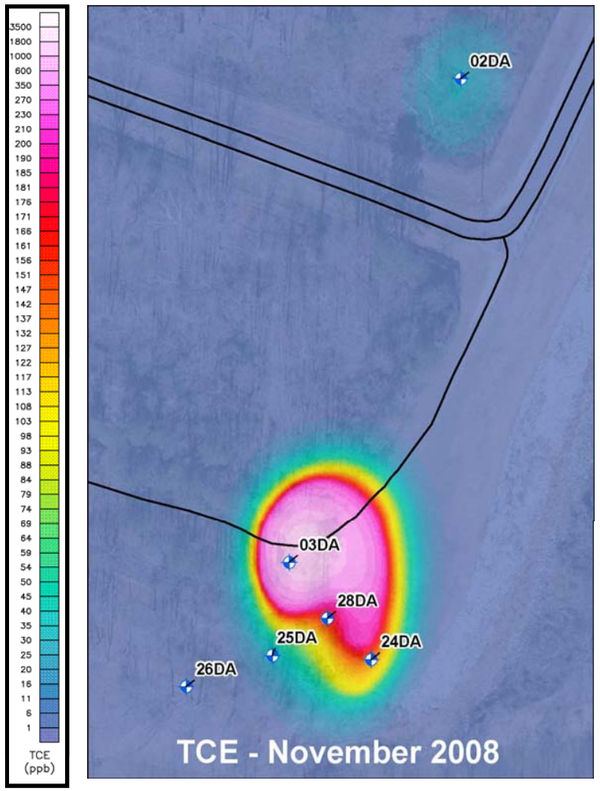
Notes:

µg/L	micrograms per liter
TCE	trichloroethene
cis-1,2-DCE	cis-1,2-dichloroethene
VC	vinyl chloride
J	Estimated
U	Undetected at the limit indicated









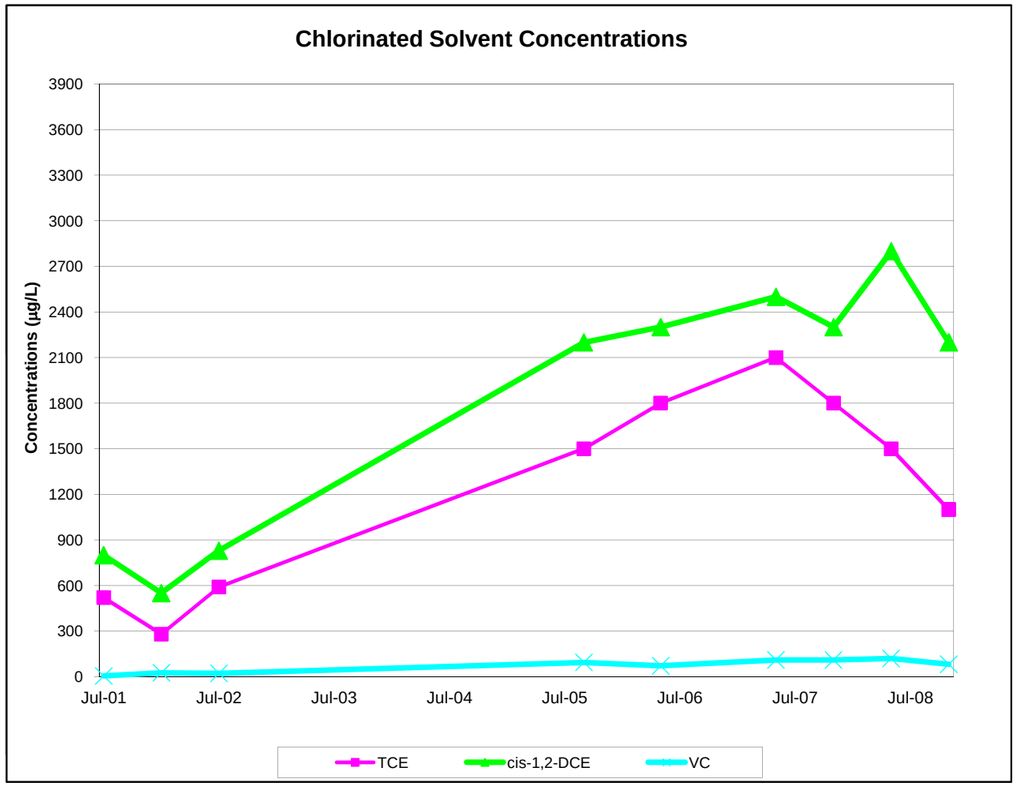
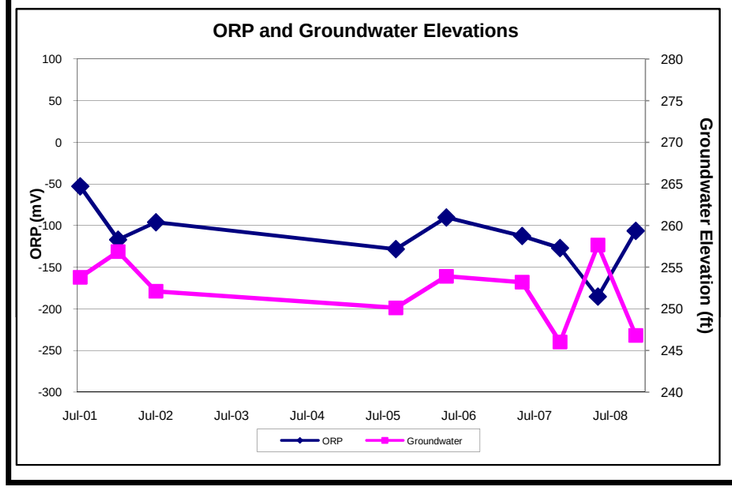


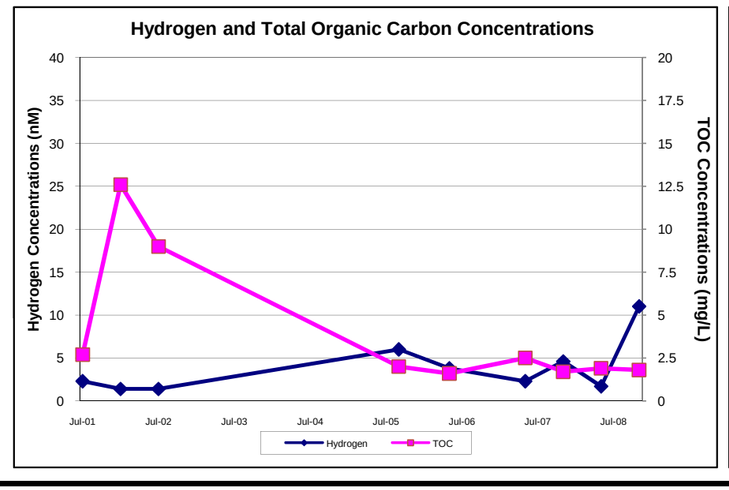
Figure 3-2
SWMU 2:
MW 002G03DA

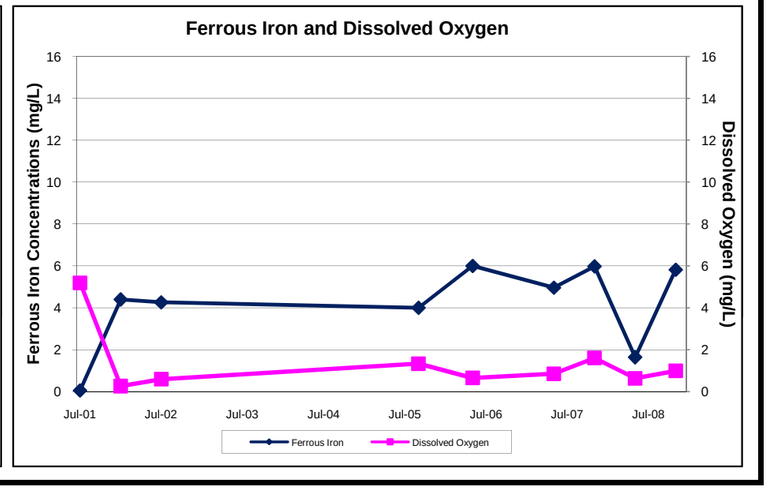
Date	Contaminants (µg/L)		
	TCE	cis-1,2-DCE	VC
Jul-01	520	800	5 U
Jan-02	280	550	26
Jul-02	590	830	22
Sep-05	1,500	2,200	94
May-06	1,800	2,300	72
May-07	2,100	2,500	110
Nov-07	1,800	2,300	110
May-08	1,500 J	2,800 J	120
Nov-08	1,100	2,200	82

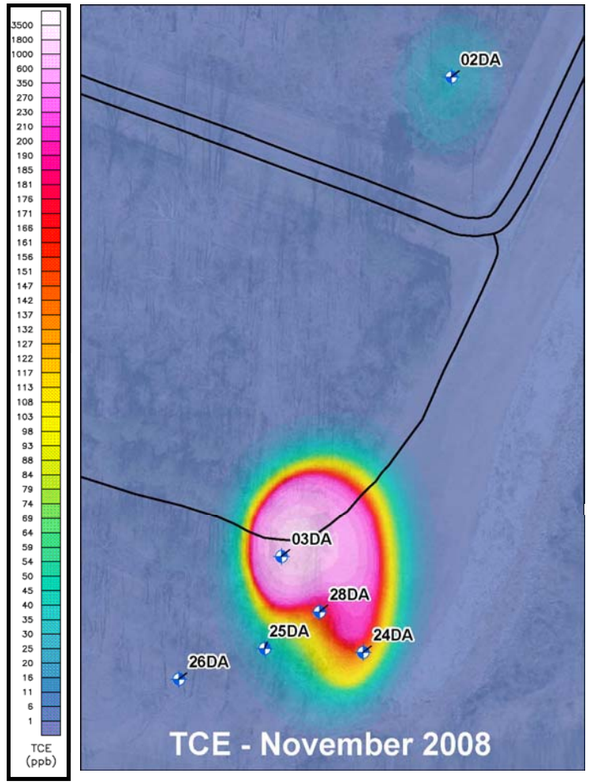
Notes:

µg/L	micrograms per liter
TCE	trichloroethene
cis-1,2-DCE	cis-1,2-dichloroethene
VC	vinyl chloride
J	Estimated
U	Undetected at the limit indicated









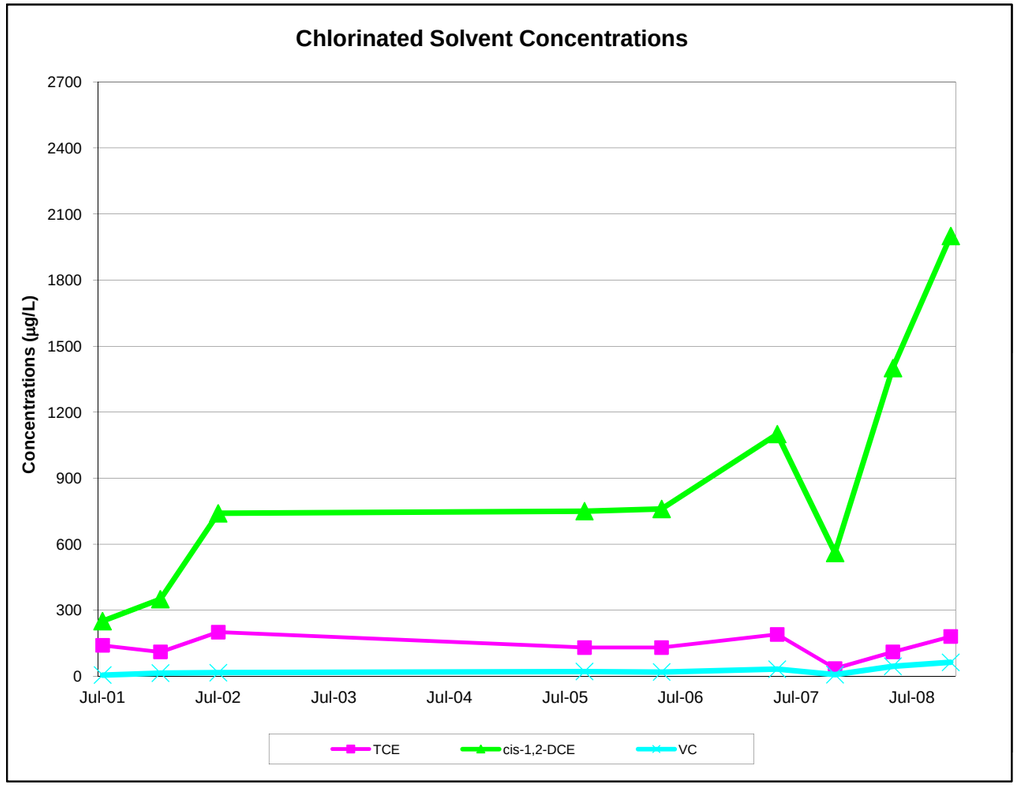
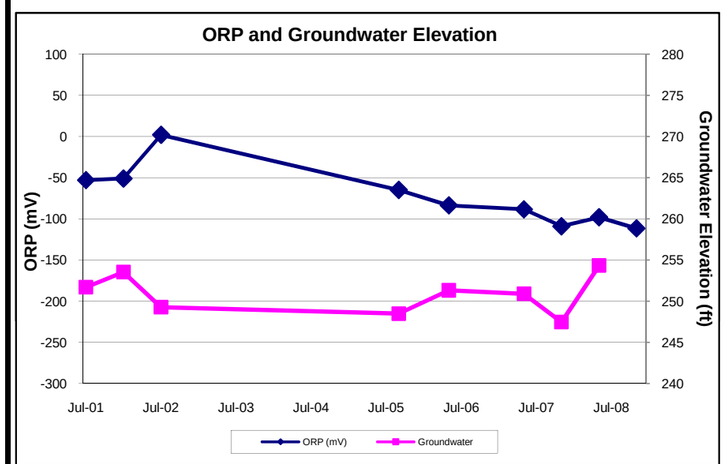


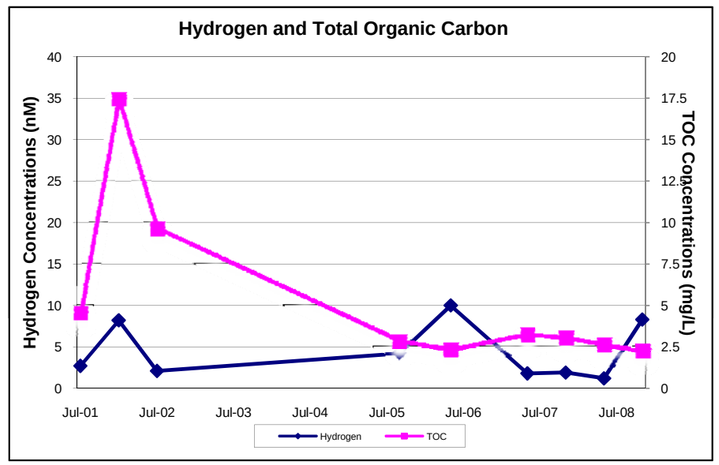
Figure 3-3
SWMU 2:
MW 002G24DA

Date	Contaminants (µg/L)		
	TCE	cis-1,2-DCE	VC
Jul-01	140	250	5 U
Jan-02	110	350	14
Jul-02	200	740	16
Sep-05	130	750	21
May-06	130	760	19
May-07	190	1,100	32
Nov-07	35	560	7
May-08	110	1,400	45
Nov-08	180	2,000	63

Notes:

µg/L	micrograms per liter
TCE	trichloroethene
cis-1,2-DCE	cis-1,2-dichloroethene
VC	vinyl chloride
J	Estimated
U	Undetected at the limit indicated





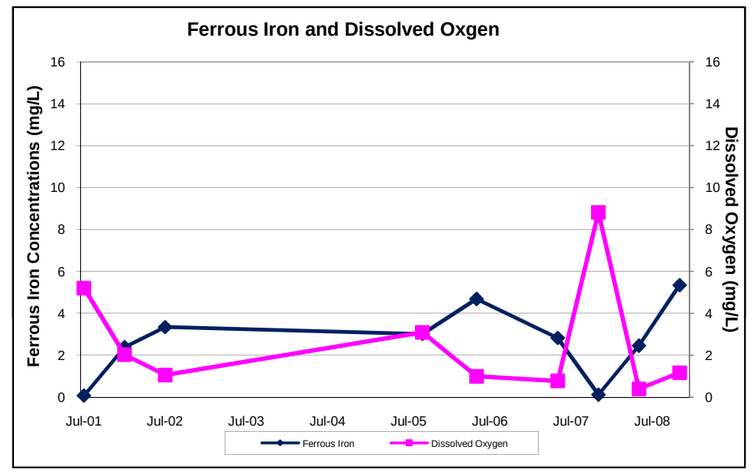
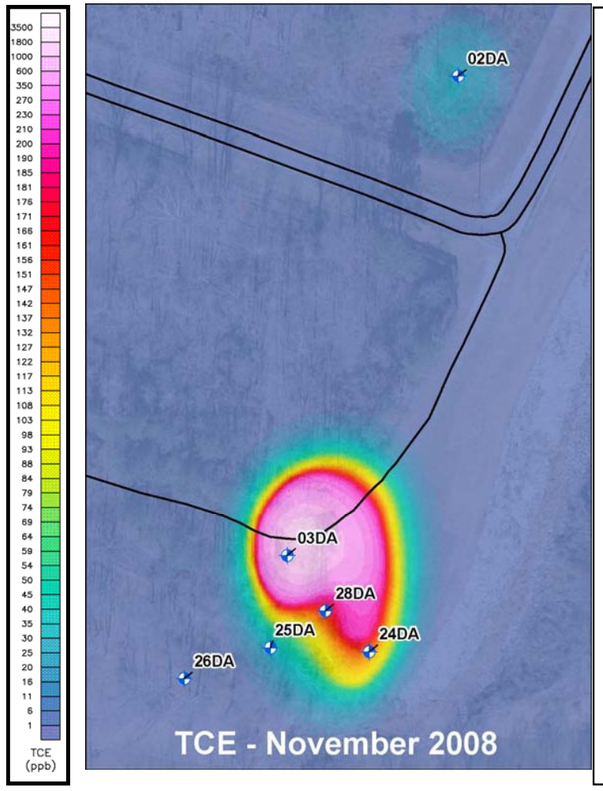
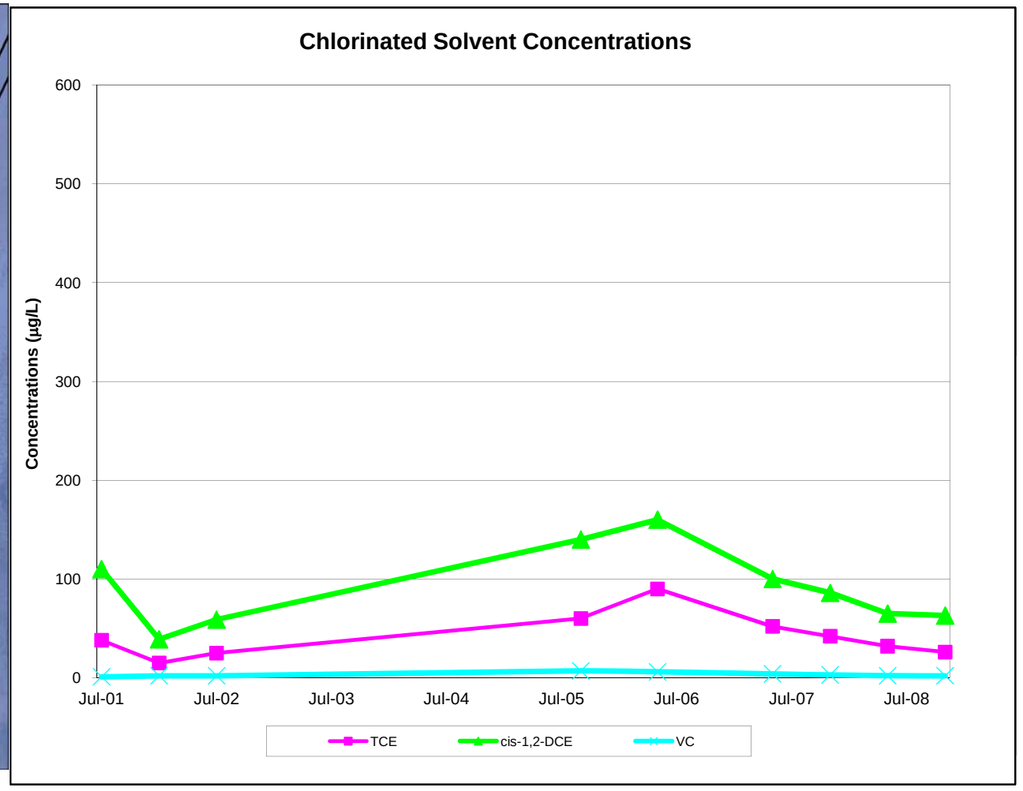


Figure 3-4
SWMU 2:
MW 002G25DA

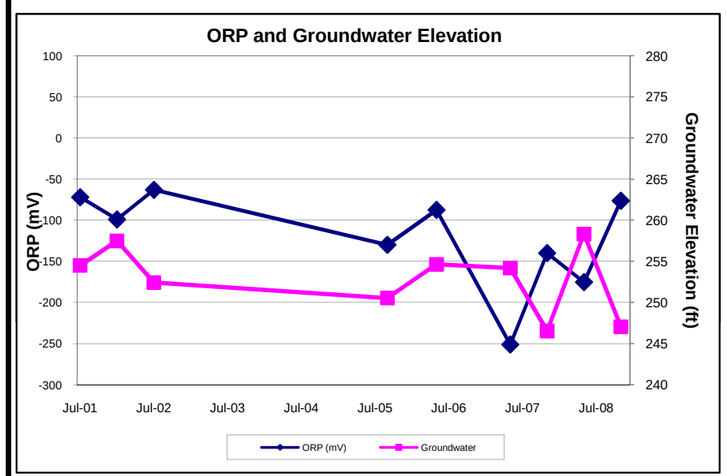


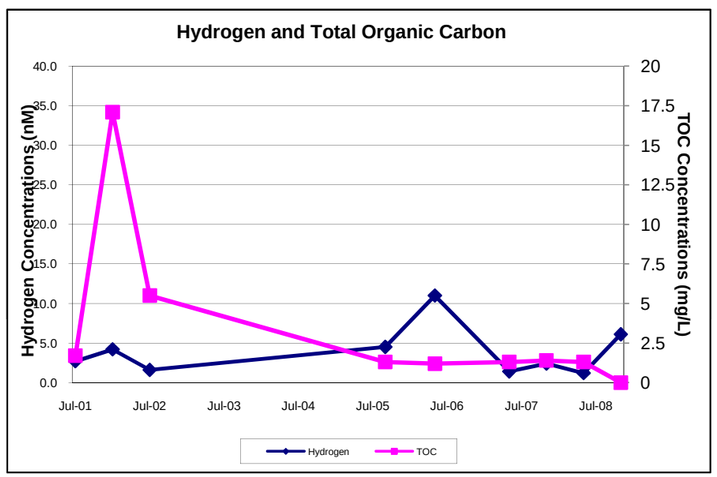


Date	Contaminants (µg/L)		
	TCE	cis-1,2-DCE	VC
Jul-01	38	110	1 U
Jan-02	15	39	2
Jul-02	25	59	2
Sep-05	60	140	7
May-06	90	160	6
May-07	52	100	4
Nov-07	42	86	3
May-08	32	65 J	2
Nov-08	26	63	2

Notes:

µg/L	micrograms per liter
TCE	trichloroethene
cis-1,2-DCE	cis-1,2-dichloroethene
VC	vinyl chloride
J	Estimated
U	Undetected at the limit indicated





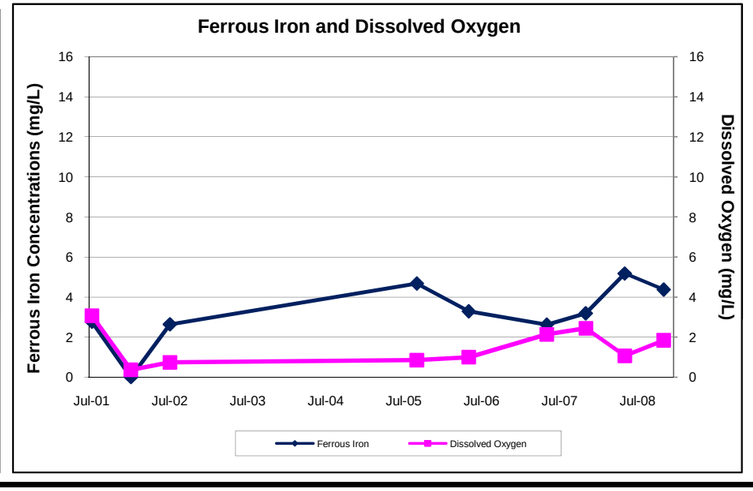
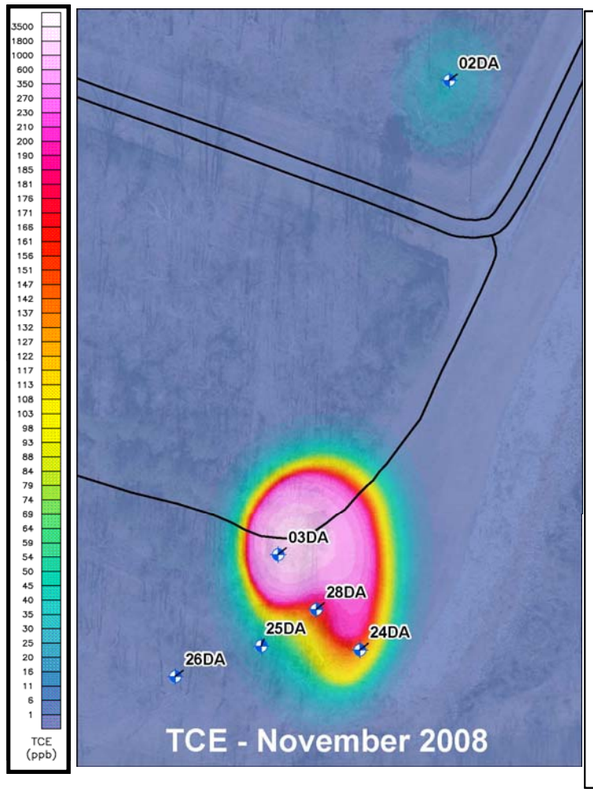
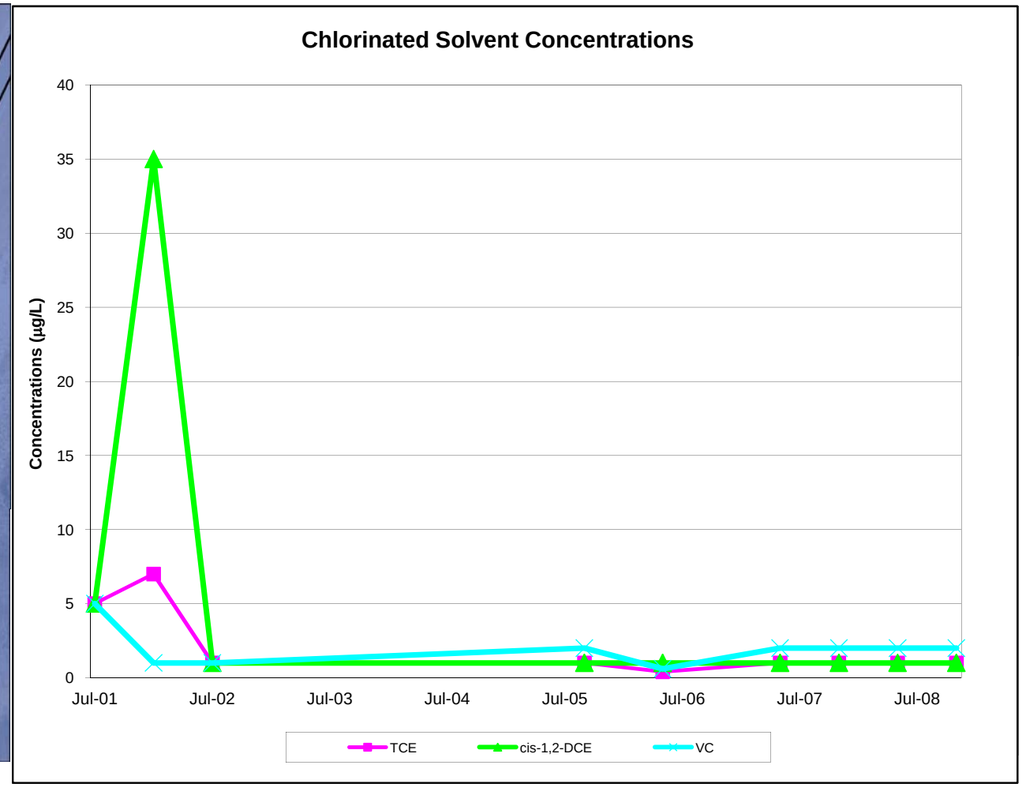


Figure 3-5
SWMU 2:
MW 002G26DA

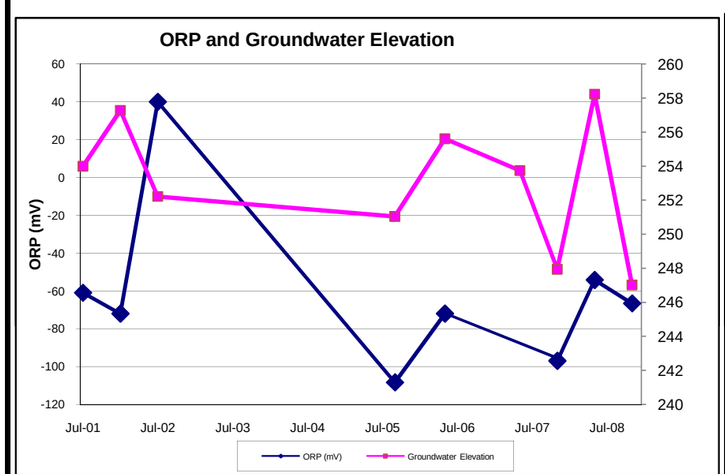


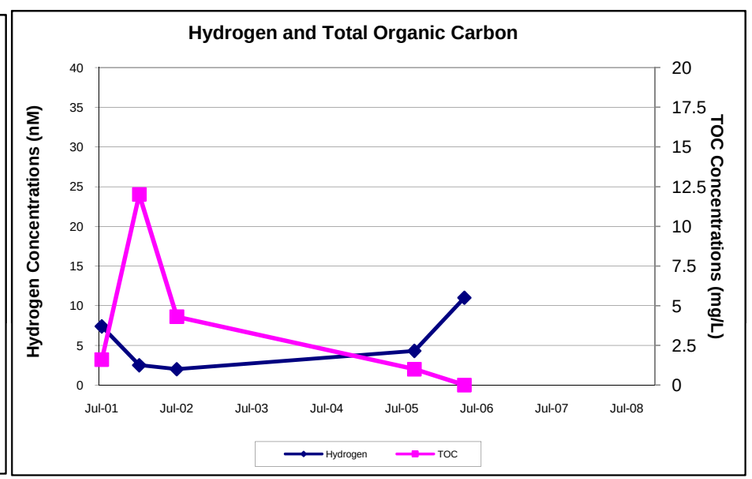


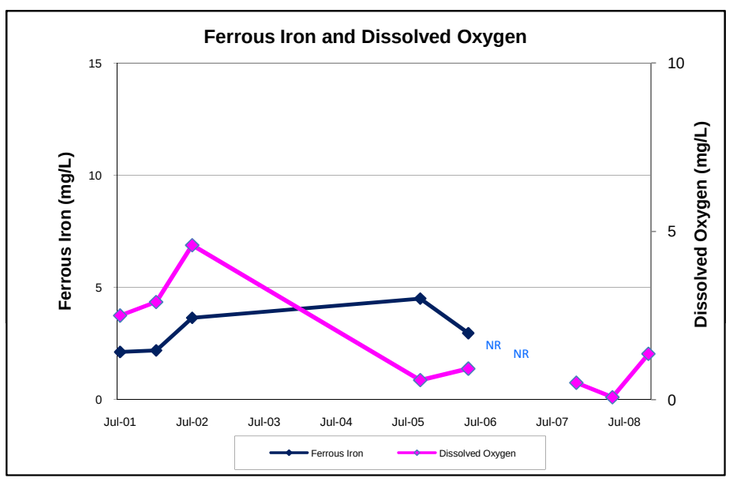
Date	Contaminants (µg/L)		
	TCE	cis-1,2-DCE	VC
Jul-01	5 U	5 U	5 U
Jan-02	7	35	1 U
Jul-02	1 U	1 U	1 U
Sep-05	1 U	1 U	2 U
May-06	0.4	1	0.6
May-07	NS	NS	NS
Nov-07	1U	1U	2U
May-08	1U	1U	2U
Nov-08	1U	1U	2U

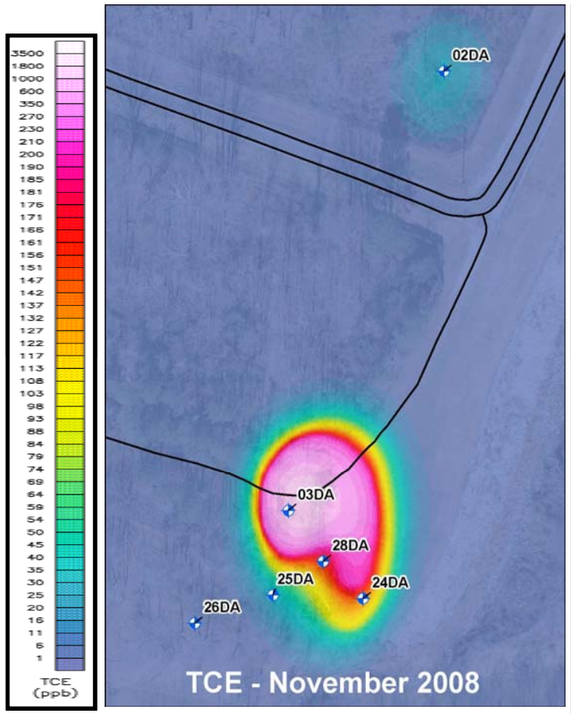
Notes:

µg/L	micrograms per liter
TCE	trichloroethene
cis-1,2-DCE	cis-1,2-dichloroethene
VC	vinyl chloride
J	Estimated
U	Undetected at the limit indicated









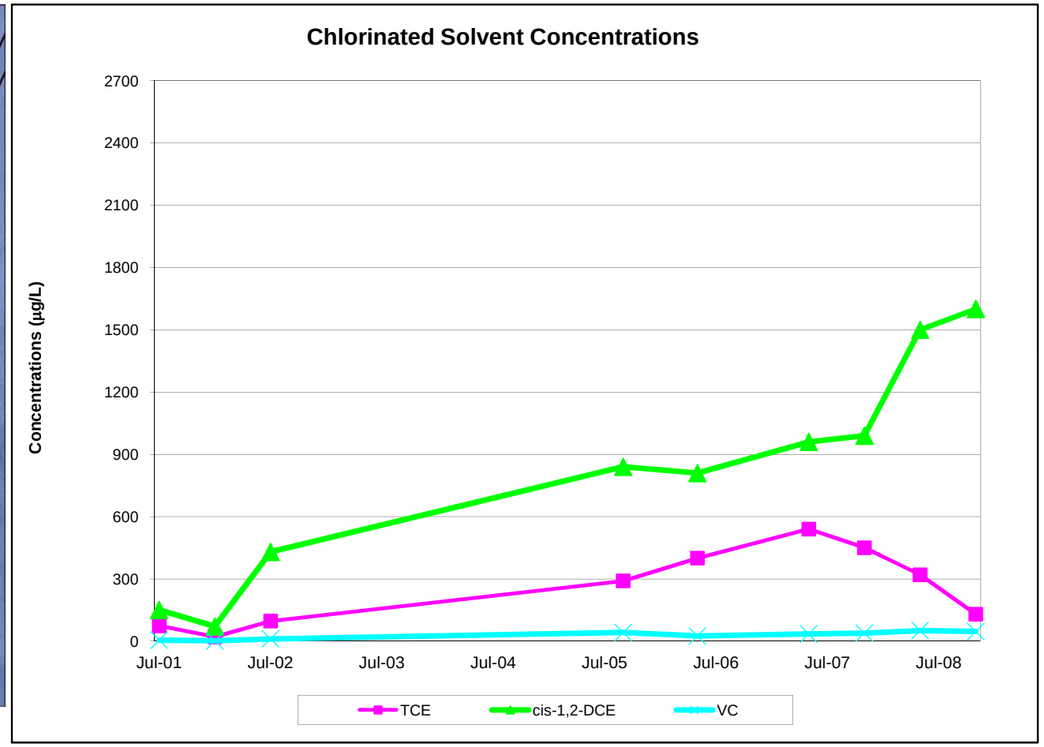
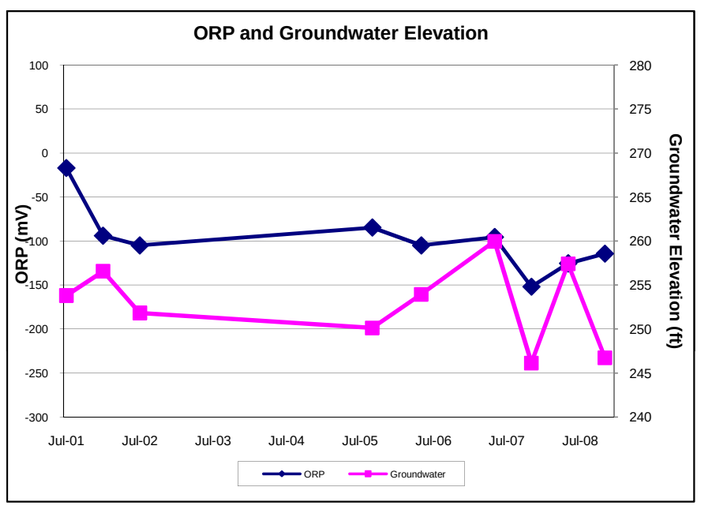


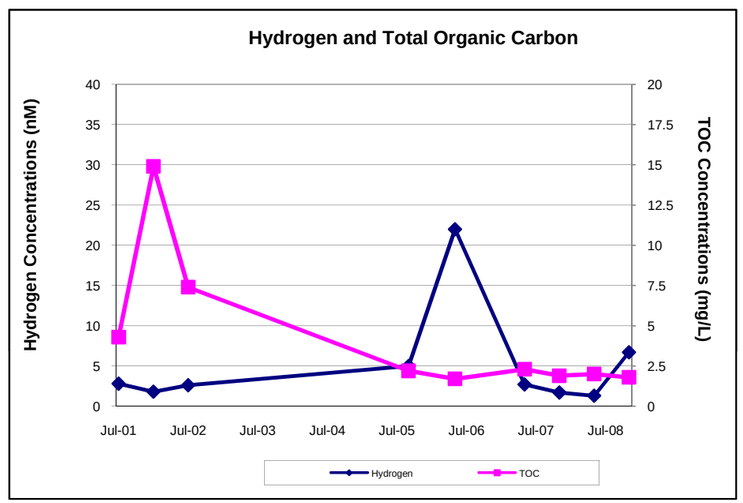
Figure 3-6
SWMU 2:
MW 002G28DA

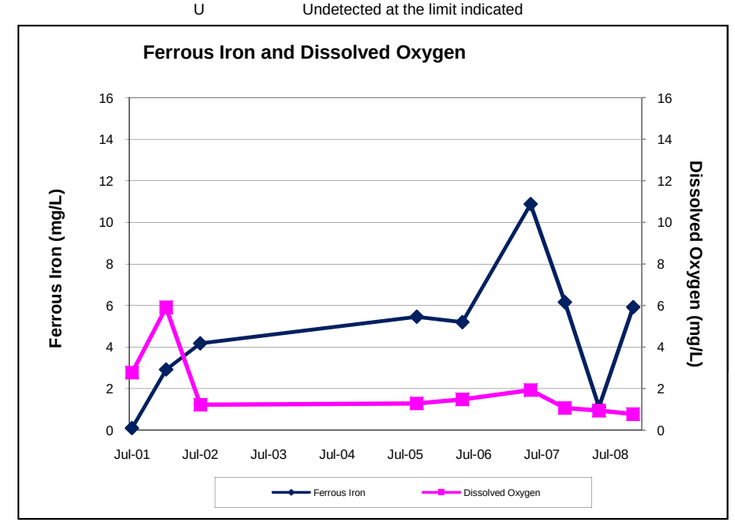
Date	Contaminants (µg/L)		
	TCE	cis-1,2-DCE	VC
Jul-01	74	150	5 U
Jan-02	21	71	2
Jul-02	97	430	11
Sep-05	290	840	42
May-06	400	810	25
May-07	540	960	35
Nov-07	450	990	39
May-08	320 J	1,500 J	51
Nov-08	130	1,600	47

Notes:

µg/L	micrograms per liter
TCE	trichloroethene
cis-1,2-DCE	cis-1,2-dichloroethene
VC	vinyl chloride
J	Estimated
U	Undetected at the limit indicated







4.0 CONCLUSIONS AND RECOMMENDATIONS

SWMU 2 monitoring well sample data from the May 2008 and November 2008 sampling events indicate continued decreases in TCE and increases in daughter product concentrations in several monitoring wells, suggesting that reductive dechlorination is occurring in groundwater. MNA data indicate aquifer conditions remain predominantly anaerobic – indicative of methanogenesis. Increases in VC, ethene, and ethane concentrations suggest conversion of DCE to VC and end products is occurring. At this time, continued monitoring for VOCs and MNA parameters is recommended to gauge ongoing contaminant degradation.

A site-specific ACL based on ecological benchmarks that is protective of Big Creek Drainage Canal has been developed for the site and is pending regulatory review and approval. If the ACL is approved, the site remedy will be modified to reflect monitoring-only and the MNA parameters listed in Table 2-1 (e.g., TOC, hydrogen, methane, ethane) will be curtailed or discontinued from future monitoring. In addition a revision to the SWMU 2 Statement of Basis will be required to reflect the remedy modification.

5.0 REFERENCES

Carmichael, J.K., Parks, W.S., Kingsbury, J.A., and Ladd, D.E. (1997). *Hydrogeology and Groundwater Quality of Naval Support Activity Mid-South, Millington, Tennessee.* Water-Resources Investigations Report 97-4158. USGS: Nashville, Tennessee.

EnSafe Inc. (May 9, 2001). *SWMU 2 — Southside Landfill — Sampling Plan, Revision 1.* EnSafe: Memphis, Tennessee.

— (December 11, 2001). *RCRA Facility Investigation Report — SWMU 2 Southside Landfill, Revision 1.* EnSafe: Memphis, Tennessee.

— (February 27, 2004). *Corrective Measures Study Report, SWMU 2 — Southside Landfill, Revision 1.* EnSafe: Memphis, Tennessee.

— (June 17, 2005). *Technical Memorandum — SWMU 2 Surface Container Removal Report, NSA Mid-South, Revision 0.* EnSafe: Memphis, Tennessee.

— (June 30, 2005). *Monitored Natural Attenuation Work Plan, SWMU 2 — Southside Landfill, Revision 1*. EnSafe: Memphis, Tennessee.

— (October 26, 2006). *Monitored Natural Attenuation Effectiveness Progress Report, SWMU 2 — Southside Landfill, Revision 1*. EnSafe: Memphis, Tennessee.

Appendix A
Analytical Data

microseeps
from insight comes solutions

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Lab Proj #: P0811198
Report Date: 11/24/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Laboratory Results

Total pages in data package: 80

Lab Sample #	Client Sample ID
P0811198-01	002G02DA15
P0811198-02	002G24DA15
P0811198-03	002G25DA15
P0811198-04	002G28DA15
P0811198-05	002G03DA15

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Debbie Hallo ***Date:*** 11-25-08

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Lab Proj #: P0811198
Report Date: 11/24/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
002G02DA15	Vapor	P0811198-01	13 Nov. 08 11:12	14 Nov. 08 12:01

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		1.400	0.010	ug/L	AM20GAX	11/23/08	sl
N Ethene		1.500	0.010	ug/L	AM20GAX	11/23/08	sl
N Hydrogen		7.600	0.600	nM	AM20GAX	11/23/08	sl
N Methane		280.000	0.015	ug/L	AM20GAX	11/23/08	sl

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Lab Proj #: P0811198
Report Date: 11/24/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
002G24DA15	Vapor	P0811198-02	13 Nov. 08 11:35	14 Nov. 08 12:01

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.210	0.010	ug/L	AM20GAX	11/23/08	sl
N Ethene		1.100	0.010	ug/L	AM20GAX	11/23/08	sl
N Hydrogen		8.300	0.600	nM	AM20GAX	11/23/08	sl
N Methane		2200.000	0.015	ug/L	AM20GAX	11/23/08	sl

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Lab Proj #: P0811198
Report Date: 11/24/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
002G25DA15	Vapor	P0811198-03	13 Nov. 08 12:47	14 Nov. 08 12:01

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.018	0.010	ug/L	AM20GAX	11/23/08	sl
N Ethene		0.040	0.010	ug/L	AM20GAX	11/23/08	sl
N Hydrogen		6.100	0.600	nM	AM20GAX	11/23/08	sl
N Methane		550.000	0.015	ug/L	AM20GAX	11/23/08	sl

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Lab Proj #: P0811198
Report Date: 11/24/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
002G28DA15	Vapor	P0811198-04	13 Nov. 08 13:50	14 Nov. 08 12:01

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.140	0.010	ug/L	AM20GAX	11/23/08	sl
N Ethene		0.890	0.010	ug/L	AM20GAX	11/23/08	sl
N Hydrogen		6.700	0.600	nM	AM20GAX	11/23/08	sl
N Methane		1900.000	0.015	ug/L	AM20GAX	11/23/08	sl

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Lab Proj #: P0811198
Report Date: 11/24/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
002G03DA15	Vapor	P0811198-05	13 Nov. 08 15:40	14 Nov. 08 12:01

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.490	0.010	ug/L	AM20GAX	11/23/08	sl
N Ethene		2.500	0.010	ug/L	AM20GAX	11/23/08	sl
N Hydrogen		11.000	0.600	nM	AM20GAX	11/23/08	sl
N Methane		2200.000	0.015	ug/L	AM20GAX	11/23/08	sl

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Lab Proj #: P0811198
Report Date: 11/24/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Prep Method: Hydrogen by Bubble Strip
Analysis Method: Hydrogen by Bubble Strip

M081123001-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Hydrogen	< 0.600	nM		0.600		- NA

M081123001-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hydrogen	54.000	nM	48.91	110.00	75 - 125

M081123001-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Hydrogen	54.000	nM	48.91	110.00	75 - 125	0.00	0 - 20

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Lab Proj #: P0811198
Report Date: 11/24/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Prep Method: Light Hydrocarbons (C1-C4) by Bubblestrip

Analysis Method: Light Hydrocarbons (C1-C4) by Bubblestrip

M081123002-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Ethane	< 0.010	ug/L		0.010		- NA
Ethene	< 0.010	ug/L		0.010		- NA
Methane	< 0.015	ug/L		0.015		- NA

M081123002-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Ethane	14.000	ug/L	13.54	103.00	75 - 125
Ethene	35.000	ug/L	32.44	108.00	75 - 125
Methane	16.000	ug/L	15.41	104.00	75 - 125

M081123002-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Ethane	14.000	ug/L	13.54	103.00	75 - 125	0.00	0 - 20
Ethene	35.000	ug/L	32.44	108.00	75 - 125	0.00	0 - 20
Methane	16.000	ug/L	15.41	104.00	75 - 125	0.00	0 - 20

[ ] Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Chain of Custody Documents

Microseeps Lab. Proj. # 08111198

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. # 857

Phone: (412) 826-5245 Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 Fax No. : (412) 826-3433

Company : Spectra Tech, Inc.

Co. Address : 132 Jefferson Court, Oak Ridge TN 37830

Phone # : 865/483-7210 Fax # :

Proj. Manager : Paul Gentry

Proj. Name/Number : NSA Mid-South

Sampler's signature : Ronnie Moody

Cooler Temp.

Results to :

Invoice to :

Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# bottles	Dissolved Hydrogen	MEE water backup									Remarks :
ØØ2GØ2DA15		✓			11/13/08	1112	2	1	1									
ØØ2G24DA15		✓			11/13/08	1135	2	1	1									
ØØ2G25DA15		✓			11/13/08	1247	2	1	1									
ØØ2G28DA15		✓			11/13/08	1350	2	1	1									
ØØ2GØ3DA15		✓			11/13/08	1540	2	1	1									

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Ronnie Moody	SpectraTech, Inc	11/13/08	1730			11/14	1100
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

08111198

microseeps
From insight comes solutions

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 1 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Laboratory Results

Total pages in data package: 71

Lab Sample #	Client Sample ID
P0806257-01	002G03DA14
P0806257-02	002G24DA14
P0806257-03	002G28DA14
P0806257-04	039G03LF12
P0806257-05	039G22LF11
P0806257-06	039G04LF19
P0806257-07	002G02DA14
P0806257-08	002G25DA14
P0806257-09	039G13LF19
P0806257-10	039G10LF19
P0806257-11	039G12LF20
P0806257-12	039G02LF12
P0806257-13	014G14LS12
P0806257-14	014G02LS22
P0806257-15	PESGMW3S14
P0806257-16	PESGMW4S14
P0806257-17	PESGMW4D14
P0806257-18	PESGMW3D14

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Debbie Hallo ***Date:*** 6-30-08

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 2 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Case Narrative: These samples were originally received without a chain of custody. The samples were collected on 5/13/08 thru 5/16/08 but not received at the laboratory until 6/17/08. The recommended holding time for this analyses is two weeks from collection. The analyses was performed on these samples per the clients instructions.

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 3 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
002G03DA14	Vapor	P0806257-01	15 May. 08 12:58	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		1.700	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 4 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
002G24DA14	Vapor	P0806257-02	15 May. 08 11:02	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		1.200	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 5 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
002G28DA14	Vapor	P0806257-03	15 May. 08 11:05	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		1.300	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 6 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G03LF12	Vapor	P0806257-04	14 May. 08 10:45	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		1.200	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 7 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G22LF11	Vapor	P0806257-05	14 May. 08 10:35	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		1.400	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 8 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G04LF19	Vapor	P0806257-06	14 May. 08 13:05	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		1.600	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 9 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
002G02DA14	Vapor	P0806257-07	14 May. 08 15:13	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		1.300	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 10 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
002G25DA14	Vapor	P0806257-08	14 May. 08 15:20	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		1.200	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 11 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G13LF19	Vapor	P0806257-09	13 May. 08 11:10	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		3.500	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 12 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G10LF19	Vapor	P0806257-10	13 May. 08 11:44	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		2.100	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 13 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G12LF20	Vapor	P0806257-11	13 May. 08 14:22	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		1.300	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 14 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G02LF12	Vapor	P0806257-12	13 May. 08 14:10	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		1.500	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 15 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
014G14LS12	Vapor	P0806257-13	12 May. 08 12:45	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		1.400	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 16 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
014G02LS22	Vapor	P0806257-14	12 May. 08 13:10	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		1.800	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 17 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
PESGMW3S14	Vapor	P0806257-15	16 May. 08 10:20	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		1.600	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 18 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
PESGMW4S14	Vapor	P0806257-16	16 May. 08 10:35	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		8.100	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 19 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
PESGMW4D14	Vapor	P0806257-17	16 May. 08 14:25	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		1.300	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 20 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
PESGMW3D14	Vapor	P0806257-18	16 May. 08 14:05	17 Jun. 08 13:31

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Hydrogen		1.400	0.600	nM	AM20GAX	6/28/08	mm

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Paul Gentry
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 21 of 21
Lab Proj #: P0806257
Report Date: 06/30/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Prep Method: Hydrogen by Bubble Strip
Analysis Method: Hydrogen by Bubble Strip

M080628013-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Hydrogen	< 0.600	nM		0.600		- NA

M080628013-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hydrogen	44.000	nM	48.91	90.00	75 - 125

M080628013-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Hydrogen	44.000	nM	48.91	90.00	75 - 125	0.00	0 - 20

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Chain of Custody Documents

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

P0806257

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

P0806257

Page ____ of ____

Client	Contact	Phone #	Fax #
Spectra Tech	Paul Gentry	(865) 483-7210	( )

Address 132 Jefferson Court City OAK RIDGE State TN Zip Code 37830

Purchase Order # Proj. Name / No. Katahdin Quote #

Bill (if different than above) Address

Sampler (Print / Sign) Travis Watson Travis Watson Copies To:

LAB USE ONLY WORK ORDER #:

KATAHDIN PROJECT NUMBER

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description 044FE	Date / Time coll'd	Matrix	No. of Cntrs.	Air Vial Ethane Methane Ethene	Water Vial (Back Up)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	F ☐Y
1	002603DA14	5/15/08 / 1258	GW	2	1	1										
2	002624DA14	5/15/08 / 1102	GW	2	1	1										
3	002628DA14	5/15/08 / 1105	GW	2	1	1										
4	039603LF12	5/14/08 / 1045	GW	2	1	1										
5	039622LF11	5/14/08 / 1035	GW	2	1	1										
6	039604LF19	5/14/08 / 1305	GW	2	1	1										
7	002602DA14	5/14/08 / 1513	GW	2	1	1										
8	002625DA14	5/14/08 / 1520	GW	2	1	1										
9	039613LF19	5/13/08 / 1110	GW	2	1	1										
10	039610LF19	5/13/08 / 1144	GW	2	1	1										
11	039612LF20	5/13/08 / 1422	GW	2	1	1										
12	039602LF12	5/13/08 / 1410	GW	2	1	1										
13	014614LS12	5/12/08 / 1245	GW	2	1	1										
14	014602LS22	5/12/08 / 1310	GW	2	1	1										
15	PESGMW3S14	5/16/08 / 1020	GW	2	1	1										
16	PESGMW4S14	5/16/08 / 1035	GW	2	1	1										

COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
		Sandra Stokes		5/17/08 10:30am	
Relinquished By: (Signature)	Date / Time	Received By: (Signature) 18418	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

ORIGINAL 6/17/

KAS-COC1

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

P0806257

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Page ____ of ____

Client	Contact	Phone #	Fax #
Spectra Tech	Paul Gentry	(865) 483-7210	( )

Address 132 Jefferson court City OAK RIDGE State TN Zip Code 37830

Purchase Order # Proj. Name / No. Katahdin Quote #

Bill (if different than above) Address

Sampler (Print / Sign) Travis Watson Travis Watson Copies To:

LAB USE ONLY WORK ORDER #:

KATAHDIN PROJECT NUMBER

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y ☐N (AZR Diel extract methanol)	Filt. ☐Y ☐N Water Vial (BACKUP)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
17	PESGMW4D14	5/14/08/1425	GW	2	1	1								
	~~PESGMW4S14~~	~~5/14/08/1035~~	~~GW~~	~~2~~	~~1~~	~~1~~								
18	PESGMW3D14	5/14/08/1405	GW	2	1	1								

COMMENTS

Travis Watson

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

ORIGINAL

KAS-COC1

Microseeps Project Number: P0806257 P0806257

Date: _____ Time of Receipt: _____ Receiver: _____

Client: _____

REASON FOR NON-CONFORMANCE:

Received H_2 vials NOCOC

USA Mid-south (Project)

ACTION TAKEN:

Client name: Spectra Tech Date: 6/17 Time: 1207

Vials were shipped to Microbial Insights in error log in for hydrogen only.

OK to run out of hold per Travis Watson + Paul Gentry

Customer Service Initials: DH Date: 6/17

2340 Stock Creek Blvd.
Rockford TN 37853-3044
Phone: (865) 573-8188
Fax: (865) 573-8133
Email: info@microbe.com

Analytical Analysis Report

Client: Paul Gentry
Spectra Tech Inc.
132 Jefferson Court
Oak Ridge, TN 37830

Phone: 865-483-7210

Fax: 865-483-7262

MI Identifier: 044FE **Date Rec:** 05/17/2008 **Report Date:** 06/12/2008

Client Project #: **Client Project Name:**

Purchase Order #:

Analysis Requested: MEE

Comments:

All samples within this data package were analyzed under U.S. EPA Good Laboratory Practice Standards: Toxic Substances Control Act (40 CFR part 790). All samples were processed according to standard operating procedures. Test results submitted in this data package meet the quality assurance requirements established by Microbial Insights, Inc.

Reported By:

Reviewed By:

NOTICE: This report is intended only for the addressee shown above and may contain confidential or privileged information. If the recipient of this material is not the intended recipient or if you have received this in error, please notify Microbial Insights, Inc. immediately. The data and other information in this report represent only the sample(s) analyzed and are rendered upon condition that it is not to be reproduced without approval from Microbial Insights, Inc. Thank you for your cooperation.

2340 Stock Creek Blvd.
Rockford TN 37853-3044
Phone: (865) 573-8188
Fax: (865) 573-8133
Email: info@microbe.com

Analysis Summary Report

Sample Name:	Date Sampled:	Date Received:	Arrival Condition:	Metabolic Gases (ug/L) Methane	Ethene	Ethane
002G03DA14	05/15/2008	05/17/2008	Intact	2,200.00	<145.85	<156.25
002G24DA14	05/15/2008	05/17/2008	Intact	892.30	<29.17	<31.25
002G28DA14	05/15/2008	05/17/2008	Intact	613.50	<29.17	<31.25
039G03LF12	05/14/2008	05/17/2008	Intact	11,819.00	<145.85	<156.25
039G22LF11	05/14/2008	05/17/2008	Intact	186,016.00	<145.85	<156.25
039G04LF19	05/14/2008	05/17/2008	Intact	3,029.00	<29.17	<31.25
002G02DA14	05/14/2008	05/17/2008	Intact	306.90	<29.17	<31.25
002G25DA14	05/14/2008	05/17/2008	Intact	375.30	<2.92	<3.13
039G13LF19	05/13/2008	05/17/2008	Intact	2.66	<2.92	<3.13
039G10LF19	05/13/2008	05/17/2008	Intact	38.86	<2.92	<3.13
039G12LF20	05/13/2008	05/17/2008	Intact	168.95	<14.59	<15.63
039G02LF12	05/13/2008	05/17/2008	Intact	5,745.00	<145.85	<156.25
014G14LS12	05/12/2008	05/17/2008	Intact	1.81	<2.92	<3.13
014G02LS22	05/12/2008	05/17/2008	Intact	43.73	<2.92	<3.13
PESGMW3S14	05/16/2008	05/17/2008	Intact	3,485.00	<2.92	<3.13
PESGMW4S14	05/16/2008	05/17/2008	Intact	3,325.00	<145.85	<156.25
PESGMW4D14	05/16/2008	05/17/2008	Intact	21,208.00	<145.85	<156.25
PESGMW3D14	05/16/2008	05/17/2008	Intact	3,062.00	<145.85	<156.25

Katahdin
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

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Page ____ of ____

Client: Spectra Tech
Contact: Paul Gentry
Phone #: (865) 483-7210
Fax #: ( )
Address: 132 Jefferson Court
City: OAK RIDGE
State: TN
Zip Code: 37830
Purchase Order #:
Proj. Name / No.:
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Travis Watson Travis Watson
Copies To:

LAB USE ONLY
WORK ORDER #:
KATAHDIN PROJECT NUMBER ____
REMARKS: ____
SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO: ____
TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description 044FE	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y ☐N (Air Vial) Ethane Methane Ethene	Filt. ☐Y ☐N (Air Vial) (Backup)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	F ☐Y
1	002603DA14	5/15/08 / 1258	GW	2	1	1								
2	002624DA14	5/15/08 / 1102	GW	2	1	1								
3	002628DA14	5/15/08 / 1105	GW	2	1	1								
4	039603LF12	5/14/08 / 1045	GW	2	1	1								
5	039622LF11	5/14/08 / 1035	GW	2	1	1								
6	039604LF19	5/14/08 / 1305	GW	2	1	1								
7	002602DA14	5/14/08 / 1513	GW	2	1	1								
8	002625DA14	5/14/08 / 1520	GW	2	1	1								
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11	039612LF20	5/13/08 / 1422	GW	2	1	1								
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13	014614LS12	5/12/08 / 1245	GW	2	1	1								
14	014602LS22	5/12/08 / 1310	GW	2	1	1								
15	PESGMW3S14	5/16/08 / 1020	GW	2	1	1								
16	PESGMW4S14	5/16/08 / 1035	GW	2	1	1								

COMMENTS:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
		Sandra Gilpin		5/17/08 10AM	
Relinquished By: (Signature)	Date / Time	Received By: (Signature) 18+18	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

ORIGINAL

KAS-COC1

Katahdin
ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

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Page ____ of ____

Client	Contact	Phone #	Fax #
Spectra Tech	Paul Gentry	(865) 483-7210	( )

Address 132 Jefferson Court City OAK RIDGE State TN Zip Code 37830

Purchase Order # Proj. Name / No. Katahdin Quote #

Bill (if different than above) Address

Sampler (Print / Sign) Travis Watson Travis Watson Copies To:

LAB USE ONLY WORK ORDER #:

KATAHDIN PROJECT NUMBER ____

REMARKS: ____

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO: ____

TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y ☐N (AZR Vial methanol, ethanol)	Filt. ☐Y ☐N (Metal Vial BACKUP)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
17	PESGMW4D14	5/14/08 / 1425	GW	2	1	1								
	~~PESGMW4S14~~	~~5/14/08 / 1035~~	~~GW~~	~~2~~	~~1~~	~~1~~								
18	PESGMW3D14	5/14/08 / 1405	GW	2	1	1								
		/												
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COMMENTS

Travis Watson

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

ORIGINAL

KAS-COC1

SPECTRA TECH, INC.
NSA SOUTH MILLINGTON
SDG: NSA-041
SB2519, SB2547

KATAHDIN ANALYTICAL SERVICES, INC.
600 TECHNOLOGY WAY
SCARBOROUGH, ME 04074

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SAMPLE DATA SUMMARY				
Report of Analytical Results	----------	A0000001	to	A0000043
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QC Summary	----------	1000002	to	1000018
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SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
SPECTRA TECH, INC.
CASE NSA SOUTH-MILLINGTON
SDG: NSA-041
SB2519, SB2547

Sample Receipt

The following samples were received on May 15 and 16, 2008 and were logged in under Katahdin Analytical Services work order numbers SB2519 and SB2547 for a hardcopy due date of June 5, 2008.

KATAHDIN Sample No.	SPECTRA TECH Sample Identification
SB2519-1	002G02DA14
SB2519-2	002G25DA14
SB2519-3	002E051408
SB2519-4	002F051408
SB2519-5	002WCENT04
SB2519-6	002WWEST04
SB2519-7	002WEAST04
SB2519-8	002G26DA14
SB2519-9	002T051408
SB2547-1	002G03DA14
SB2547-2	002G24DA14
SB2547-3	002H28DA14
SB2547-4	002G28DA14

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of SDG NSA-041 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, 1998 & 2004, Office of Solid Waste and

Emergency Response, U.S. EPA, for the specific methods listed below or on the Report of Analysis. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation reports.

8260B Analysis

Sample SB2519-1 was used for the Matrix Spike (MS) and Matrix Spike Duplicate (MSD), per client request.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these acceptance limits. Katahdin standard operating procedure is to take corrective action only if the number of spiked analytes in the LCS that are outside of the QC limits is greater than the DoD QSM allowable number of exceedances. The LCS report consists of the full list of spiked analytes, but only the client's list of target analytes are evaluated. If the associated MS/MSD has greater than the allowable number of exceedances, no corrective action is taken, as long as the LCS is acceptable.

The initial calibrations analyzed on the F and S instruments on 05/14/08 and 05/19/08 respectively, had %RSD values for acetone that exceeded the method acceptance limit of 15%. Although the %RSD is greater than 15%, acetone was calibrated with the average model since this calibration model is more accurate for this analyte at concentrations near the PQL than either the linear or quadratic calibration models.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of SDG NSA-041 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA.

Inductively-Coupled Plasma (ICP) Atomic Emission Spectroscopic Analysis

Aqueous-matrix Katahdin Sample Numbers SB2519-(1 and 2) and SB2547-(1, 2, and 4) were digested for ICP analysis on 05/21/08 (QC Batch YE21ICW0) in accordance with USEPA Method 3010A. Due to limited sample volume, only one matrix spike sample could be prepared on Katahdin Sample Number SB2519-1. Duplicate laboratory control samples were prepared in this digestion batch.

ICP analyses of SDG NSA-041 sample digestates were performed using a Thermo iCAP 6500 ICP spectrometer in accordance with USEPA Method 6010B. All samples were analyzed within holding times and all analytical run QC criteria were met, with the following exceptions:

The recovery of aluminum in the ICSA and ICSAB (analyzed at 21:54 and 21:59) in ICP analysis sequence IYE27A was above the laboratory's acceptance limit. However, because aluminum does not cause a spectral interference with iron, no corrective action was necessary.

Matrix QC Summary

The recovery of iron in the matrix-spiked aliquot of Katahdin Sample Number SB2519-1 is within the laboratory's acceptance limits (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added).

The serial dilution analysis of Katahdin Sample Number SB2519-1 is within the laboratory's acceptance limit (<10% relative percent difference, if the concentration in the original sample is greater than 50 times the IDL) for iron.

Reporting of Metals Results

Analytical results for client samples and batch QC samples (preparation blanks and laboratory control samples) have been reported down to the laboratory's method detection limits (MDLs) throughout the accompanying data package. These MDLs have been adjusted for each sample based on the sample amounts used in preparation and analysis. Analytical results that are below the MDLs are flagged with "U" in the C-qualifier column.

Analytical results for instrument run QC samples (ICVs, ICBs, etc.) have been reported down to the laboratory's instrument detection limits (IDLs).

IDLs, MDLs, and PQLs are listed on Form 10 of the accompanying data package.

Wet Chemistry Analysis

The samples of SDG NSA-041 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for nitrate and total organic carbon were performed according to "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, 1979 Revised 1983, U.S. EPA.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Practical Quantitation Limit (PQL) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U PQL", where "PQL" is the numerical value of the Practical Quantitation Limit.

All analyses were performed within analytical holding times and all quality control criteria were met.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Leslie Dimond
6.6.08

Leslie Dimond
Quality Assurance Officer

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.

tahdin Analytical Services, Inc. — Sample Receipt Condition Report

ent: SPECTRA TECH	KAS PM: SB	Sampled By: TRAVIS WATSON
oject:	KIMS Entry By:	Delivered By: FEDEX
AS Work Order#:	KIMS Review By:	Received By: JRS
OG #:	Cooler: _____ of _____	Date/Time Rec.: 5/15/08 / 10:13

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
Custody seals present / intact?	✓				
Chain of Custody present in cooler?	✓				
Chain of Custody signed by client?	✓				
Chain of Custody matches samples?	✓				
Temperature Blanks present?	✓				Temp (°C): (7.2)
Samples received at < 6 °C w/o freezing? Ice or ice packs present? Y or N	✓				Cooler temp. (°C): (if no temp blank) 2.0
Volatiles free of headspace?	✓				
Aqueous: No bubble larger than a pea					* trip blank - bubbles
Soil/Sediment: Received in airtight container?	✓				
Received in methanol?				✓	
Methanol covering soil?				✓	
. Trip Blank present in cooler?	✓				
. Proper sample containers and volume?	✓				
0. Samples within hold time upon receipt?	✓				
1. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	✓				
Sulfide - >9				✓	
Cyanide – pH >12				✓	
2. Corrective Action Report Filed?					

Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

* 002TO51408 - was not labeled
assumed since last vials
left

tahdin Analytical Services, Inc.

Sample Receipt Condition Report

ent: Spectra Tech	KAS PM: SB	Sampled By:
oject:	KIMS Entry By:	Delivered By: Fed-Ex
AS Work Order#: SB2547	KIMS Review By:	Received By:
OG #:	Cooler: 1 of 1	Date/Time Rec.:

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
Custody seals present / intact?	✓				
Chain of Custody present in cooler?	✓				
Chain of Custody signed by client?	✓				
Chain of Custody matches samples?					
Temperature Blanks present?	✓				Temp (°C): 1.5
Samples received at < 6 °C w/o freezing? Ice or ice packs present? (Y) or N	✓				Cooler temp. (°C): (if no temp blank)
Volatiles free of headspace? **Aqueous:** No bubble larger than a pea	✓				
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
Trip Blank present in cooler?	✓				
Proper sample containers and volume?	✓				
10. Samples within hold time upon receipt?	✓				
11. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	✓				
Sulfide – >9				✓	
Cyanide – pH >12				✓	
12. Corrective Action Report Filed?				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

Only 1 set of 002-G030A14
voided last set from log-in
-as 8/10/09

QS 06-06

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Page ____ of ____

ient: Spectra Tech | Contact: Paul Gentry | Phone #: (865) 483 7210 | Fax #: ( )

dress: 132 Jefferson Court | City: OAK RIDGE | State: TN | Zip Code: 37830

rchase Order # | Proj. Name / No. | Katahdin Quote #

l (if different than above) | Address

mpler (Print / Sign): Travis Watson | Copies To:

AB USE ONLY | WORK ORDER #: 2518 2519

KATAHDIN PROJECT NUMBER

MARKS:

IPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

BILL NO:

MP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC (Filt. ☐Y ☐N)	TOC (Filt. ☐Y ☐N)	NITRATES (Filt. ☐Y ☐N)	IRON (Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)
039G03LF12	5/14/08 / 1045	GW	7	3	2	1	1		•				
039G22LF~~12~~11	5/14/08 / 1035	GW	7	3	2	1	1		•				
039G04LF19	5/14/08 / 1305	GW	7	3	2	1	1		•				
039H04LF19	5/14/08 / 1305	GW	3	3									
039E051408	5/14/08 / 1500	~~SW~~ W	3	3									
039F051408	5/14/08 / 1500	~~SW~~ W	3	3									
002G02DA14	5/14/08 / 1513	GW	7	3	2	1	1		•				
002G02DA14MS	5/14/08 / 1513	GW	3	3									
002G02DA14MSD	5/14/08 / 1513	GW	3	3									
002G25DA14	5/14/08 / 1520	GW	7	3	2	1	1						
002E051408	5/14/08 / 1535	W	3	3									
002F051408	5/14/08 / 1535	W	3	3									
002WCENT04	5/14/08 / 1317	SW	3	3									
002WWEST04	5/14/08 / 1309	SW	3	3									
002WEAST04	5/14/08 / 1324	SW	3	3									
002G26DA14	5/14/08 / 1400	GW	3	3									

MENTS

elinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
elinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Page ____ of ____

ent: Spectra Tech | Contact: Paul Gentry | Phone #: (865) 483 7210 | Fax #: ( )

dress: 132 Jefferson Court | City: OAK RIDGE | State: TN | Zip Code: 37830

chase Order # | Proj. Name / No. | Katahdin Quote #

(if different than above) | Address

npler (Print / Sign): Travis Watson | Copies To:

AB USE ONLY WORK ORDER #:

KATAHDIN PROJECT NUMBER

MARKS:

PPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

BILL NO:

MP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
				VOC									
002T051408	5/14/08 / 1630	W	2	2									
	/												
	/												
	/												
	/												
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IMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Page ____ of ____

Client: Spectra Tech | Contact: Paul Gentry | Phone #: (865) 483-2210 | Fax #: ( )

Address: 132 Jefferson Court | City: OAK RIDGE | State: TN | Zip Code: 37830

Purchase Order #: | Proj. Name / No.: | Katahdin Quote #:

Bill (if different than above): | Address:

Sampler (Print / Sign): Travis Watson | Copies To:

LAB USE ONLY | WORK ORDER #: SB2547 | KATAHDIN PROJECT NUMBER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC	TOC	Nitrate	IRON					
				Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
002603DA14	5/15/08/1258	GW	7	3	2	1	1					
007603LF27	5/15/08/1545	GW	3	3								
007603LF27MS	5/15/08/1545	GW	3	3								
007603LF27MSD	5/15/08/1545	GW	3	3								
002624DA14	5/15/08/1102	GW	7	3	2	1	1					
007T051508	5/15/08/1630	W	2	2								
002H28DA14	5/15/08/1105	GW	3	3								
002628DA14	5/15/08/1105	GW	7	3	2	1	1					
002603DA14	5/15/08/1258	GW	7	3	2	1	1	→ only one set recd				
	/											
	/											
	/											
	/											
	/											
	/											
	/											

COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
		5-16-08 10:15			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

May. 16, 2008
08:38 AM

Login Number: SB2519

Account: SPECTRA001
Spectra Tech, Inc.

NoWeb

Project: SPECTRANSA001

'mary Report Address:
Paul Gentry
Spectra Tech, Inc.
132 Jefferson Court

Oak Ridge,TN 37830
pgentry@spectratechinc.com

'mary Invoice Address:
Accounts Payable
Spectra Tech, Inc.
132 Jefferson Court

Oak Ridge,TN 37830

port CC Addresses:
'oice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	Rpt to MDL
CHECK NO.	:	
CLIENT PO#	:	N62467-05-G
COOLER TEMPERATURE	:	2.0
DELIVERY SERVICES	:	Fedex
EDD FORMAT	:	KAS105QC-CSV
PM	:	SMB
PROJECT NAME	:	NSA South Millington
QC LEVEL	:	iV
REGULATORY LIST	:	NFESC
REPORT INSTRUCTIONS	:	Send Copy of rpt & EDD on CD
SDG ID	:	NSA-41
SDG STATUS	:	Begin

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SB2519-1	002G02DA14	14-MAY-08 15:13	15-MAY-08			04-JUN-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	16-MAY-08	125mL Plastic	1	**MS/MSD**
Aqueous	S	E415.1-TOC	11-JUN-08	40 mL Vial+H2SO4	2	
Aqueous	S	MS/MSD-VOA				
Aqueous	S	SW3010-PREP	10-NOV-08		1	
Aqueous	S	SW6010-IRON	10-NOV-08	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	28-MAY-08	40mL Vial+HCl	9	

SB2519-2	002G25DA14	14-MAY-08 15:20	15-MAY-08			04-JUN-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	16-MAY-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	11-JUN-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	10-NOV-08		1	
Aqueous	S	SW6010-IRON	10-NOV-08	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	28-MAY-08	40mL Vial+HCl	3	

SB2519-3	002E051408	14-MAY-08 15:35	15-MAY-08			04-JUN-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	28-MAY-08	40mL Vial+HCl	3	

SB2519-4	002F051408	14-MAY-08 15:35	15-MAY-08			04-JUN-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	28-MAY-08	40mL Vial+HCl	3	

SB2519-5	002WCENT04	14-MAY-08 13:17	15-MAY-08			04-JUN-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	28-MAY-08	40mL Vial+HCl	3	

SB2519-6	002WWEST04	14-MAY-08 13:09	15-MAY-08			04-JUN-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	28-MAY-08	40mL Vial+HCl	3	

12
000008

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

May. 16, 2008
08:38 AM

Login Number: SB2519

Account: SPECTRA001 NoWeb
Spectra Tech, Inc.

Project: SPECTRANSA001

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SB2519-7	002WEAST04	14-MAY-08 13:24	15-MAY-08			04-JUN-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	28-MAY-08	40mL Vial+HCl	3	

SB2519-8	002G26DA14	14-MAY-08 14:00	15-MAY-08			04-JUN-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	28-MAY-08	40mL Vial+HCl	3	

SB2519-9	002T051408	14-MAY-08 06:30	15-MAY-08			04-JUN-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	28-MAY-08	40mL Vial+HCl	3	

***Total Samples:* 9** ***Total Analyses:* 27**

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

May. 16, 2008
01:48 PM

Login Number: SB2547

Account: SPECTRA001 NoWeb
Spectra Tech, Inc.

Project: SPECTRANSA001

rimary Report Address:
Paul Gentry
Spectra Tech, Inc.
132 Jefferson Court

Oak Ridge,TN 37830
pgentry@spectratechinc.com

rimary Invoice Address:
Accounts Payable
Spectra Tech, Inc.
132 Jefferson Court

Oak Ridge,TN 37830

eport CC Addresses:
voice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	Rpt to MDL
CHECK NO.	:	
CLIENT PO#	:	N62467-05-G
COOLER TEMPERATURE	:	1.5
DELIVERY SERVICES	:	FEDEX
EDD FORMAT	:	KAS105QC-CSV
PM	:	SMB
PROJECT NAME	:	NSA South Milligton
QC LEVEL	:	IV
REGULATORY LIST	:	NFESC
REPORT INSTRUCTIONS	:	Send copy of rpt & edd on CD
SDG ID	:	NSA-41
SDG STATUS	:	Cont

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SB2547-1	002G03DA14	15-MAY-08 12:58	16-MAY-08			05-JUN-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	17-MAY-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	12-JUN-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	11-NOV-08		1	
Aqueous	S	SW6010-IRON	11-NOV-08	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	29-MAY-08	40mL Vial+HCl	3	

SB2547-2	002G24DA14	15-MAY-08 11:02	16-MAY-08	05-JUN-08

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	17-MAY-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	12-JUN-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	11-NOV-08		1	
Aqueous	S	SW6010-IRON	11-NOV-08	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	29-MAY-08	40mL Vial+HCl	3	

SB2547-3	002H28DA14	15-MAY-08 11:05	16-MAY-08	05-JUN-08

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	29-MAY-08	40mL Vial+HCl	3	

SB2547-4	002G28DA14	15-MAY-08 11:05	16-MAY-08	05-JUN-08

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	17-MAY-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	12-JUN-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	11-NOV-08		1	
Aqueous	S	SW6010-IRON	11-NOV-08	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	29-MAY-08	40mL Vial+HCl	3	

Total Samples: *4* ***Total Analyses:*** *20*

4

SAMPLE DATA SUMMARY PACKAGE

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).

or

J Used for Pesticide/Aroclor analyte when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

(Refer to BOD Qualifiers Page for BOD footnotes)

U	Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.
E	Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.
J	Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).
I-7	The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
A-4	Please refer to cover letter or narrative for further information.
MCL	Maximum Contaminant Level
NL	No limit
NFL	No Free Liquid Present
FLP	Free Liquid Present
NOD	No Odor Detected
H1	Please note that the regulatory holding time for pH is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. pH for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.
H2	Please note that the regulatory holding time for DO is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. DO for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.
H3	Please note that the regulatory holding time for sulfite is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Sulfite for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.
H4	Please note that the regulatory holding time for residual chlorine is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Residual chlorine for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 05/14/08
Received Date: 05/15/08
Extraction Date:
Analysis Date: 23-MAY-2008 16:49
Report Date: 06/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2519-1
Client ID: 002G02DA14
SDG: NSA-041
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51784
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride		13	1.0	2	2	0.4
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.4
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene		24	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene		120	1.0	1	1	0.3
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.4
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	1	1.0	1	1	0.4
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene		67	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.4
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		97%				
17060-07-0	1,2-Dichloroethane-D4		98%				
2037-26-5	Toluene-D8		100%				
460-00-4	P-Bromofluorobenzene		92%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002G02DA14

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-041

Matrix: (soil/water) WATER Lab Sample ID: SB2519-1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: S0888

Level: (low/med) LOW Date Received: 05/15/08

% Moisture: not dec. _____ Date Analyzed: 05/23/08

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 05/14/08
Received Date: 05/15/08
Extraction Date:
Analysis Date: 23-MAY-2008 17:21
Report Date: 06/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2519-2
Client ID: 002G25DA14
SDG: NSA-041
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51784
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride		2	1.0	2	2	0.4
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.4
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene		20	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene		65	1.0	1	1	0.3
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.4
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	1	1.0	1	1	0.4
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene		32	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.4
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		96%				
17060-07-0	1,2-Dichloroethane-D4		100%				
2037-26-5	Toluene-D8		102%				
460-00-4	P-Bromofluorobenzene		97%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002G25DA14

Lab Name: KATAHDIN ANALYTICAL SERVICES — Lab Code: KAS

Project: NSA SOUTH MILLINGTON — SDG No.: NSA-041

Matrix: (soil/water) WATER — Lab Sample ID: SB2519-2

Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: S0889

Level: (low/med) LOW — Date Received: 05/15/08

% Moisture: not dec. _____ — Date Analyzed: 05/23/08

GC Column: RTX-VMS ID: 0.18 (mm) — Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) — Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 05/14/08
Received Date: 05/15/08
Extraction Date:
Analysis Date: 23-MAY-2008 12:10
Report Date: 06/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2519-3
Client ID: 002E051408
SDG: NSA-041
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51784
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.4
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.4
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.3
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.4
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	1	1.0	1	1	0.4
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.4
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		91%				
17060-07-0	1,2-Dichloroethane-D4		91%				
2037-26-5	Toluene-D8		106%				
460-00-4	P-Bromofluorobenzene		96%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002E051408

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-041

Matrix: (soil/water) WATER Lab Sample ID: SB2519-3

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: S0879

Level: (low/med) LOW Date Received: 05/15/08

% Moisture: not dec. _____ Date Analyzed: 05/23/08

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 05/14/08
Received Date: 05/15/08
Extraction Date:
Analysis Date: 23-MAY-2008 12:41
Report Date: 06/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2519-4
Client ID: 002F051408
SDG: NSA-041
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51784
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.4
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.4
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.3
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.4
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	1	1.0	1	1	0.4
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.4
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		91%				
17060-07-0	1,2-Dichloroethane-D4		92%				
2037-26-5	Toluene-D8		105%				
460-00-4	P-Bromofluorobenzene		96%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002F051408

Lab Name: KATAHDIN ANALYTICAL SERVICES — Lab Code: KAS

Project: NSA SOUTH MILLINGTON — SDG No.: NSA-041

Matrix: (soil/water) WATER — Lab Sample ID: SB2519-4

Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: S0880

Level: (low/med) LOW — Date Received: 05/15/08

% Moisture: not dec. _____ — Date Analyzed: 05/23/08

GC Column: RTX-VMS ID: 0.18 (mm) — Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) — Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 05/14/08
Received Date: 05/15/08
Extraction Date:
Analysis Date: 23-MAY-2008 17:52
Report Date: 06/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2519-5
Client ID: 002WCENT04
SDG: NSA-041
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51784
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.4
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.4
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.3
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.4
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	1	1.0	1	1	0.4
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.4
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		97%				
2037-26-5	Toluene-D8		103%				
460-00-4	P-Bromofluorobenzene		95%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002WCENT04

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-041

Matrix: (soil/water) WATER Lab Sample ID: SB2519-5

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: S0890

Level: (low/med) LOW Date Received: 05/15/08

% Moisture: not dec. _____ Date Analyzed: 05/23/08

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 05/14/08
Received Date: 05/15/08
Extraction Date:
Analysis Date: 23-MAY-2008 18:23
Report Date: 06/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2519-6
Client ID: 002WWEST04
SDG: NSA-041
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51784
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.4
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.4
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.3
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.4
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	1	1.0	1	1	0.4
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.4
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		92%				
17060-07-0	1,2-Dichloroethane-D4		97%				
2037-26-5	Toluene-D8		110%				
460-00-4	P-Bromofluorobenzene		96%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002WWEST04

Lab Name: KATAHDIN ANALYTICAL SERVICES — Lab Code: KAS

Project: NSA SOUTH MILLINGTON — SDG No.: NSA-041

Matrix: (soil/water) WATER — Lab Sample ID: SB2519-6

Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: S0891

Level: (low/med) LOW — Date Received: 05/15/08

% Moisture: not dec. _____ — Date Analyzed: 05/23/08

GC Column: RTX-VMS ID: 0.18 (mm) — Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) — Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 05/14/08
Received Date: 05/15/08
Extraction Date:
Analysis Date: 23-MAY-2008 18:55
Report Date: 06/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2519-7
Client ID: 002WEAST04
SDG: NSA-041
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51784
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.4
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.4
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.3
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.4
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	1	1.0	1	1	0.4
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.4
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		99%				
2037-26-5	Toluene-D8		105%				
460-00-4	P-Bromofluorobenzene		92%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002WEAST04

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-041

Matrix: (soil/water) WATER Lab Sample ID: SB2519-7

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: S0892

Level: (low/med) LOW Date Received: 05/15/08

% Moisture: not dec. _____ Date Analyzed: 05/23/08

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 05/14/08
Received Date: 05/15/08
Extraction Date:
Analysis Date: 23-MAY-2008 19:27
Report Date: 06/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2519-8
Client ID: 002G26DA14
SDG: NSA-041
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51784
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.4
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.4
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.3
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.4
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	1	1.0	1	1	0.4
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.4
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		92%				
17060-07-0	1,2-Dichloroethane-D4		100%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		96%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002G26DA14

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-041

Matrix: (soil/water) WATER

Lab Sample ID: SB2519-8

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: S0893

Level: (low/med) LOW

Date Received: 05/15/08

% Moisture: not dec. _____

Date Analyzed: 05/23/08

GC Column: RTX-VMS ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 05/14/08
Received Date: 05/15/08
Extraction Date:
Analysis Date: 23-MAY-2008 11:39
Report Date: 06/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2519-9
Client ID: 002T051408
SDG: NSA-041
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51784
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.4
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	J	1	1.0	5	5	0.4
67-64-1	Acetone	J	4	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.3
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.4
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	1	1.0	1	1	0.4
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.4
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		90%				
17060-07-0	1,2-Dichloroethane-D4		90%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		98%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002T051408

Lab Name: KATAHDIN ANALYTICAL SERVICES — Lab Code: KAS

Project: NSA SOUTH MILLINGTON — SDG No.: NSA-041

Matrix: (soil/water) WATER — Lab Sample ID: SB2519-9

Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: S0878

Level: (low/med) LOW — Date Received: 05/15/08

% Moisture: not dec. _____ — Date Analyzed: 05/23/08

GC Column: RTX-VMS ID: 0.18 (mm) — Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) — Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	1066-40-6	SILANOL, TRIMETHYL-	8.03	2	NJ
2.					
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 05/15/08
Received Date: 05/16/08
Extraction Date:
Analysis Date: 24-MAY-2008 18:13
Report Date: 06/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2547-1
Client ID: 002G03DA14
SDG: NSA-041
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51824
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride		120	1.0	2	2	0.4
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene		6	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.4
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	E	970	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	E	3600	1.0	1	1	0.3
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.4
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	1	1.0	1	1	0.4
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	E	1800	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.4
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		102%				
17060-07-0	1,2-Dichloroethane-D4		116%				
2037-26-5	Toluene-D8		86%				
460-00-4	P-Bromofluorobenzene		87%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002G03DA14

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-041

Matrix: (soil/water) WATER Lab Sample ID: SB2547-1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F0427

Level: (low/med) LOW Date Received: 05/16/08

% Moisture: not dec. _____ Date Analyzed: 05/24/08

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 05/15/08
Received Date: 05/16/08
Extraction Date:
Analysis Date: 28-MAY-2008 02:42
Report Date: 06/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2547-1DL
Client ID: 002G03DA14
SDG: NSA-041
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG51868
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	100	50	2	100	30
75-01-4	Vinyl chloride	J	86	50	2	100	22
74-83-9	Bromomethane	U	100	50	2	100	47
75-00-3	Chloroethane	U	100	50	2	100	26
75-35-4	1,1-Dichloroethene	U	50	50	1	50	19
75-15-0	Carbon Disulfide	U	50	50	1	50	27
75-09-2	Methylene Chloride	U	250	50	5	250	20
67-64-1	Acetone	U	250	50	5	250	130
156-60-5	trans-1,2-Dichloroethene		690	50	1	50	24
75-34-3	1,1-Dichloroethane	U	50	50	1	50	19
156-59-2	cis-1,2-Dichloroethene		2800	50	1	50	16
67-66-3	Chloroform	U	50	50	1	50	18
56-23-5	Carbon Tetrachloride	U	50	50	1	50	22
71-55-6	1,1,1-Trichloroethane	U	50	50	1	50	18
78-93-3	2-Butanone	U	250	50	5	250	95
71-43-2	Benzene	U	50	50	1	50	19
107-06-2	1,2-Dichloroethane	U	50	50	1	50	13
79-01-6	Trichloroethene		1500	50	1	50	26
78-87-5	1,2-Dichloropropane	U	50	50	1	50	27
75-27-4	Bromodichloromethane	U	50	50	1	50	15
10061-01-5	cis-1,3-dichloropropene	U	50	50	1	50	22
108-88-3	Toluene	U	50	50	1	50	15
108-10-1	4-methyl-2-pentanone	U	250	50	5	250	77
127-18-4	Tetrachloroethene	U	50	50	1	50	23
10061-02-6	trans-1,3-Dichloropropene	U	50	50	1	50	12
79-00-5	1,1,2-Trichloroethane	U	50	50	1	50	21
124-48-1	Dibromochloromethane	U	50	50	1	50	16
591-78-6	2-Hexanone	U	250	50	5	250	57
108-90-7	Chlorobenzene	U	50	50	1	50	19
100-41-4	Ethylbenzene	U	50	50	1	50	20
1330-20-7	Xylenes (total)	U	150	50	3	150	18
	m+p-Xylenes	U	100	50	2	100	48
95-47-6	o-Xylene	U	50	50	1	50	18
100-42-5	Styrene	U	50	50	1	50	14
75-25-2	Bromoform	U	50	50	1	50	15
79-34-5	1,1,2,2-Tetrachloroethane	U	50	50	1	50	24
1868-53-7	Dibromofluoromethane		91%				
17060-07-0	1,2-Dichloroethane-D4		97%				
2037-26-5	Toluene-D8		90%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 05/15/08
Received Date: 05/16/08
Extraction Date:
Analysis Date: 24-MAY-2008 18:44
Report Date: 06/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2547-2
Client ID: 002G24DA14
SDG: NSA-041
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51824
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride		45	1.0	2	2	0.4
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene		3	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.4
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	E	550	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	E	1800	1.0	1	1	0.3
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.4
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	1	1.0	1	1	0.4
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene		110	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.4
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		99%				
17060-07-0	1,2-Dichloroethane-D4		117%				
2037-26-5	Toluene-D8		91%				
460-00-4	P-Bromofluorobenzene		92%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002G24DA14

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-041

Matrix: (soil/water) WATER

Lab Sample ID: SB2547-2

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: F0428

Level: (low/med) LOW

Date Received: 05/16/08

% Moisture: not dec. _____

Date Analyzed: 05/24/08

GC Column: RTX-VMS ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 05/15/08
Received Date: 05/16/08
Extraction Date:
Analysis Date: 28-MAY-2008 03:14
Report Date: 06/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2547-2DL
Client ID: 002G24DA14
SDG: NSA-041
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG51868
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	40	20	2	40	12
75-01-4	Vinyl chloride	J	31	20	2	40	9
74-83-9	Bromomethane	U	40	20	2	40	19
75-00-3	Chloroethane	U	40	20	2	40	10
75-35-4	1,1-Dichloroethene	U	20	20	1	20	8
75-15-0	Carbon Disulfide	U	20	20	1	20	11
75-09-2	Methylene Chloride	U	100	20	5	100	8
67-64-1	Acetone	U	100	20	5	100	52
156-60-5	trans-1,2-Dichloroethene		400	20	1	20	10
75-34-3	1,1-Dichloroethane	U	20	20	1	20	8
156-59-2	cis-1,2-Dichloroethene		1400	20	1	20	6
67-66-3	Chloroform	U	20	20	1	20	7
56-23-5	Carbon Tetrachloride	U	20	20	1	20	9
71-55-6	1,1,1-Trichloroethane	U	20	20	1	20	7
78-93-3	2-Butanone	U	100	20	5	100	38
71-43-2	Benzene	U	20	20	1	20	8
107-06-2	1,2-Dichloroethane	U	20	20	1	20	5
79-01-6	Trichloroethene		93	20	1	20	10
78-87-5	1,2-Dichloropropane	U	20	20	1	20	11
75-27-4	Bromodichloromethane	U	20	20	1	20	6
10061-01-5	cis-1,3-dichloropropene	U	20	20	1	20	9
108-88-3	Toluene	U	20	20	1	20	6
108-10-1	4-methyl-2-pentanone	U	100	20	5	100	31
127-18-4	Tetrachloroethene	U	20	20	1	20	9
10061-02-6	trans-1,3-Dichloropropene	U	20	20	1	20	5
79-00-5	1,1,2-Trichloroethane	U	20	20	1	20	8
124-48-1	Dibromochloromethane	U	20	20	1	20	6
591-78-6	2-Hexanone	U	100	20	5	100	23
108-90-7	Chlorobenzene	U	20	20	1	20	8
100-41-4	Ethylbenzene	U	20	20	1	20	8
1330-20-7	Xylenes (total)	U	60	20	3	60	7
	m+p-Xylenes	U	40	20	2	40	19
95-47-6	o-Xylene	U	20	20	1	20	7
100-42-5	Styrene	U	20	20	1	20	6
75-25-2	Bromoform	U	20	20	1	20	6
79-34-5	1,1,2,2-Tetrachloroethane	U	20	20	1	20	9
1868-53-7	Dibromofluoromethane		93%				
17060-07-0	1,2-Dichloroethane-D4		99%				
2037-26-5	Toluene-D8		90%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 05/15/08
Received Date: 05/16/08
Extraction Date:
Analysis Date: 24-MAY-2008 19:16
Report Date: 06/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2547-3
Client ID: 002H28DA14
SDG: NSA-041
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51824
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride		50	1.0	2	2	0.4
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene		3	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.4
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	E	440	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	E	2000	1.0	1	1	0.3
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.4
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	1	1.0	1	1	0.4
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	E	430	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.4
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		101%				
17060-07-0	1,2-Dichloroethane-D4		119%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		93%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002H28DA14

Lab Name: KATAHDIN ANALYTICAL SERVICES — Lab Code: KAS

Project: NSA SOUTH MILLINGTON — SDG No.: NSA-041

Matrix: (soil/water) WATER — Lab Sample ID: SB2547-3

Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: F0429

Level: (low/med) LOW — Date Received: 05/16/08

% Moisture: not dec. _____ — Date Analyzed: 05/24/08

GC Column: RTX-VMS ID: 0.18 (mm) — Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) — Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 05/15/08
Received Date: 05/16/08
Extraction Date:
Analysis Date: 28-MAY-2008 03:46
Report Date: 06/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2547-3DL
Client ID: 002H28DA14
SDG: NSA-041
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG51868
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	40	20	2	40	12
75-01-4	Vinyl chloride	J	36	20	2	40	9
74-83-9	Bromomethane	U	40	20	2	40	19
75-00-3	Chloroethane	U	40	20	2	40	10
75-35-4	1,1-Dichloroethene	U	20	20	1	20	8
75-15-0	Carbon Disulfide	U	20	20	1	20	11
75-09-2	Methylene Chloride	U	100	20	5	100	8
67-64-1	Acetone	U	100	20	5	100	52
156-60-5	trans-1,2-Dichloroethene		310	20	1	20	10
75-34-3	1,1-Dichloroethane	U	20	20	1	20	8
156-59-2	cis-1,2-Dichloroethene		1400	20	1	20	6
67-66-3	Chloroform	U	20	20	1	20	7
56-23-5	Carbon Tetrachloride	U	20	20	1	20	9
71-55-6	1,1,1-Trichloroethane	U	20	20	1	20	7
78-93-3	2-Butanone	U	100	20	5	100	38
71-43-2	Benzene	U	20	20	1	20	8
107-06-2	1,2-Dichloroethane	U	20	20	1	20	5
79-01-6	Trichloroethene		310	20	1	20	10
78-87-5	1,2-Dichloropropane	U	20	20	1	20	11
75-27-4	Bromodichloromethane	U	20	20	1	20	6
10061-01-5	cis-1,3-dichloropropene	U	20	20	1	20	9
108-88-3	Toluene	U	20	20	1	20	6
108-10-1	4-methyl-2-pentanone	U	100	20	5	100	31
127-18-4	Tetrachloroethene	U	20	20	1	20	9
10061-02-6	trans-1,3-Dichloropropene	U	20	20	1	20	5
79-00-5	1,1,2-Trichloroethane	U	20	20	1	20	8
124-48-1	Dibromochloromethane	U	20	20	1	20	6
591-78-6	2-Hexanone	U	100	20	5	100	23
108-90-7	Chlorobenzene	U	20	20	1	20	8
100-41-4	Ethylbenzene	U	20	20	1	20	8
1330-20-7	Xylenes (total)	U	60	20	3	60	7
	m+p-Xylenes	U	40	20	2	40	19
95-47-6	o-Xylene	U	20	20	1	20	7
100-42-5	Styrene	U	20	20	1	20	6
75-25-2	Bromoform	U	20	20	1	20	6
79-34-5	1,1,2,2-Tetrachloroethane	U	20	20	1	20	9
1868-53-7	Dibromofluoromethane		93%				
17060-07-0	1,2-Dichloroethane-D4		101%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		96%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 05/15/08
Received Date: 05/16/08
Extraction Date:
Analysis Date: 24-MAY-2008 19:47
Report Date: 06/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2547-4
Client ID: 002G28DA14
SDG: NSA-041
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51824
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride		51	1.0	2	2	0.4
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene		3	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.4
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	E	440	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	E	1900	1.0	1	1	0.3
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.4
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	1	1.0	1	1	0.4
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	E	450	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.4
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		101%				
17060-07-0	1,2-Dichloroethane-D4		119%				
2037-26-5	Toluene-D8		88%				
460-00-4	P-Bromofluorobenzene		92%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002G28DA14

Lab Name: KATAHDIN ANALYTICAL SERVICES — Lab Code: KAS

Project: NSA SOUTH MILLINGTON — SDG No.: NSA-041

Matrix: (soil/water) WATER — Lab Sample ID: SB2547-4

Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: F0430

Level: (low/med) LOW — Date Received: 05/16/08

% Moisture: not dec. _____ — Date Analyzed: 05/24/08

GC Column: RTX-VMS ID: 0.18 (mm) — Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) — Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 05/15/08
Received Date: 05/16/08
Extraction Date:
Analysis Date: 28-MAY-2008 04:18
Report Date: 06/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2547-4DL
Client ID: 002G28DA14
SDG: NSA-041
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG51868
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	40	20	2	40	12
75-01-4	Vinyl chloride	J	37	20	2	40	9
74-83-9	Bromomethane	U	40	20	2	40	19
75-00-3	Chloroethane	U	40	20	2	40	10
75-35-4	1,1-Dichloroethene	U	20	20	1	20	8
75-15-0	Carbon Disulfide	U	20	20	1	20	11
75-09-2	Methylene Chloride	U	100	20	5	100	8
67-64-1	Acetone	U	100	20	5	100	52
156-60-5	trans-1,2-Dichloroethene		330	20	1	20	10
75-34-3	1,1-Dichloroethane	U	20	20	1	20	8
156-59-2	cis-1,2-Dichloroethene		1500	20	1	20	6
67-66-3	Chloroform	U	20	20	1	20	7
56-23-5	Carbon Tetrachloride	U	20	20	1	20	9
71-55-6	1,1,1-Trichloroethane	U	20	20	1	20	7
78-93-3	2-Butanone	U	100	20	5	100	38
71-43-2	Benzene	U	20	20	1	20	8
107-06-2	1,2-Dichloroethane	U	20	20	1	20	5
79-01-6	Trichloroethene		320	20	1	20	10
78-87-5	1,2-Dichloropropane	U	20	20	1	20	11
75-27-4	Bromodichloromethane	U	20	20	1	20	6
10061-01-5	cis-1,3-dichloropropene	U	20	20	1	20	9
108-88-3	Toluene	U	20	20	1	20	6
108-10-1	4-methyl-2-pentanone	U	100	20	5	100	31
127-18-4	Tetrachloroethene	U	20	20	1	20	9
10061-02-6	trans-1,3-Dichloropropene	U	20	20	1	20	5
79-00-5	1,1,2-Trichloroethane	U	20	20	1	20	8
124-48-1	Dibromochloromethane	U	20	20	1	20	6
591-78-6	2-Hexanone	U	100	20	5	100	23
108-90-7	Chlorobenzene	U	20	20	1	20	8
100-41-4	Ethylbenzene	U	20	20	1	20	8
1330-20-7	Xylenes (total)	U	60	20	3	60	7
	m+p-Xylenes	U	40	20	2	40	19
95-47-6	o-Xylene	U	20	20	1	20	7
100-42-5	Styrene	U	20	20	1	20	6
75-25-2	Bromoform	U	20	20	1	20	6
79-34-5	1,1,2,2-Tetrachloroethane	U	20	20	1	20	9
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		101%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		93%				

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 002G02DA14

Matrix: WATER **SDG Name:** NSA-041

Percent Solids: 0.00 **Lab Sample ID:** SB2519-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	10900			P	1	100	9.00

Bottle ID: M

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 002G25DA14

Matrix: WATER **SDG Name:** NSA-041

Percent Solids: 0.00 **Lab Sample ID:** SB2519-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	8050			P	1	100	9.00

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 002G03DA14

Matrix: WATER **SDG Name:** NSA-041

Percent Solids: 0.00 **Lab Sample ID:** SB2547-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	14100			P	1	100	9.00

Bottle ID: F

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 002G24DA14

Matrix: WATER **SDG Name:** NSA-041

Percent Solids: 0.00 **Lab Sample ID:** SB2547-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	15900			P	1	100	9.00

Bottle ID: G

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 002G28DA14

Matrix: WATER **SDG Name:** NSA-041

Percent Solids: 0.00 **Lab Sample ID:** SB2547-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	17400			P	1	100	9.00

Bottle ID: F

Comments:

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Paul Gentry
Spectra Tech, Inc.
132 Jefferson Court
Oak Ridge, TN 37830

Lab Sample ID: SB2519-1
Report Date: 30-MAY-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-041

Sample Description	Matrix	Date Sampled	Date Received
002G02DA14	AQ	14-MAY-08	15-MAY-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG51453	15-MAY-08 12:25:01	N/A	N/A	CP	
Total Organic Carbon	3.3 mg/L	1	EPA 415.1	WG51618	19-MAY-08 17:31:01	N/A	N/A	KK	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Paul Gentry
Spectra Tech, Inc.
132 Jefferson Court
Oak Ridge,TN 37830

Lab Sample ID: SB2519-2
Report Date: 30-MAY-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-041

Sample Description	Matrix	Date Sampled	Date Received
002G25DA14	AQ	14-MAY-08	15-MAY-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG51453	15-MAY-08 12:10:17	N/A	N/A	CP	
Total Organic Carbon	1.3 mg/L	1	EPA 415.1	WG51618	19-MAY-08 18:29:12	N/A	N/A	KK	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Paul Gentry
Spectra Tech, Inc.
132 Jefferson Court
Oak Ridge,TN 37830

Lab Sample ID: SB2547-1
Report Date: 30-MAY-08
Client PO: N62467-05-G
Project: NSA South Milligton
SDG: NSA-041

Sample Description	Matrix	Date Sampled	Date Received
002G03DA14	AQ	15-MAY-08	16-MAY-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG51576	16-MAY-08 14:24:19	N/A	N/A	CP	
Total Organic Carbon	1.9 mg/L	1	EPA 415.1	WG51618	19-MAY-08 20:34:34	N/A	N/A	KK	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Paul Gentry
Spectra Tech, Inc.
132 Jefferson Court
Oak Ridge, TN 37830

Lab Sample ID: SB2547-2
Report Date: 30-MAY-08
Client PO: N62467-05-G
Project: NSA South Milligton
SDG: NSA-041

Sample Description	Matrix	Date Sampled	Date Received
002G24DA14	AQ	15-MAY-08	16-MAY-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG51576	16-MAY-08 14:27:36	N/A	N/A	CP	
Total Organic Carbon	2.6 mg/L	1	EPA 415.1	WG51618	19-MAY-08 20:46:12	N/A	N/A	KK	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Paul Gentry
Spectra Tech, Inc.
132 Jefferson Court
Oak Ridge,TN 37830

Lab Sample ID: SB2547-4
Report Date: 30-MAY-08
Client PO: N62467-05-G
Project: NSA South Milligton
SDG: NSA-041

Sample Description	Matrix	Date Sampled	Date Received
002G28DA14	AQ	15-MAY-08	16-MAY-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG51576	16-MAY-08 14:28:42	N/A	N/A	CP	
Total Organic Carbon	2.0 mg/L	1	EPA 415.1	WG51618	19-MAY-08 20:57:58	N/A	N/A	KK	

SPECTRA TECH, NUS.
NSA SOUTH MILLINGTON
SDG: NSA-048
SB6582

KATAHDIN ANALYTICAL SERVICES, INC.
600 TECHNOLOGY WAY
SCARBOROUGH, ME 04074

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SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
SPECTRA TECH, INC.
CASE NSA SOUTH MILLINGTON
SDG: NSA-048
SB6582

Sample Receipt

The following samples were received on November 14, 2008 and were logged in under Katahdin Analytical Services work order number SB6582 for a hardcopy due date of December 4, 2008.

KATAHDIN Sample No.	SPECTRA TECH Sample Identification
SB6582-1	002T111308
SB6582-2	002G02DA15
SB6582-3	002G24DA15
SB6582-4	002G25DA15
SB6582-5	002G28DA15
SB6582-6	002WEAST05
SB6582-7	002WCENT05
SB6582-8	002WWEST05
SB6582-9	002G26DA15
SB6582-10	002F111308
SB6582-11	002E111308
SB6582-12	002G03DA15
SB6582-13	002H28DA15

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Ms. Shelly Brown.** This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of SDG NSA-048 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA, for the specific methods listed below or on the Report of

Analysis. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with an "M" (software-generated) on the pertinent quantitation reports.

8260B Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these acceptance limits. Katahdin standard operating procedure is to take corrective action only if the number of spiked analytes in the LCS that are outside of the QC limits is greater than the DoD QSM allowable number of exceedances. The LCS report consists of the full list of spiked analytes, but only the client's list of target analytes are evaluated. If the associated MS/MSD has greater than the allowable number of exceedances, no corrective action is taken, as long as the LCS is acceptable.

Samples SB6582-3, 12 and 13 were manually integrated for 1,2-dichloroethane. The specific reasons for the manual integrations are indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of SDG NSA-048 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA.

Inductively-Coupled Plasma (ICP) Atomic Emission Spectroscopic Analysis

Aqueous-matrix Katahdin Sample Numbers SB6582-(2-5 and 12) were digested for ICP analysis on 11/20/08 (QC Batch YK20ICW2) in accordance with USEPA Method 3010A.

ICP analyses of SDG NSA-048 sample digestates were performed using a Thermo iCAP 6500 ICP spectrometer in accordance with USEPA Method 6010B. All samples were analyzed within holding times and all analytical run QC criteria were met.

Reporting of Metals Results

Analytical results for client samples and batch QC samples (preparation blanks and laboratory control samples) have been reported down to the laboratory's method detection limits (MDLs) throughout the accompanying data package. These MDLs have been adjusted for each sample based on the sample amounts used in preparation and analysis. Analytical results that are below the MDLs are flagged with "U" in the C-qualifier column.

Analytical results for instrument run QC samples (ICVs, ICBs, etc.) have been reported down to the laboratory's instrument detection limits (IDLs).

IDLs, MDLs, and PQLs are listed on Form 10 of the accompanying data package.

Wet Chemistry Analysis

The samples of SDG NSA-048 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for nitrate and total organic carbon were performed according to "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, 1979 Revised 1983, U.S. EPA.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Practical Quantitation Limit (PQL) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U PQL", where "PQL" is the numerical value of the Practical Quantitation Limit.

All analyses were performed within analytical holding times and all quality control criteria were met.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Leslie Dimond
12.05.08

Leslie Dimond
Quality Assurance Officer

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold
M9	Peak was not completely integrated.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.

Katahdin Analytical Services, Inc. **Sample Receipt Condition Report**

Client: SpectraTech	KAS PM: [illegible]	Sampled By: Client
Project:	KIMS Entry By:	Delivered By: FedEx
KAS Work Order#: SBG582	KIMS Review By:	Received By: [illegible]
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 11/14/08 / 1000

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	✓				
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present?	✓				Temp (°C):
6. Samples received at < 6 °C w/o freezing? Ice or ice packs present? (Y or N)	✓				Cooler temp. (°C): (if no temp blank) 2.1
7. Volatiles free of headspace?	✓				
Aqueous: No bubble larger than a pea					
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
8. Trip Blank present in cooler?	✓				
9. Proper sample containers and volume?	✓				
10. Samples within hold time upon receipt?	✓				
11. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	✓				
Sulfide - >9				✓	
Cyanide – pH >12				✓	
12. Corrective Action Report Filed?				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Page ____ of ____

ent: Spectra Tech, Inc. | Contact: Ronnie Moody | Phone #: (865)483-7210 | Fax #: ( )

dress: 132 Jefferson Court | City: Oak Ridge | State: TN | Zip Code: 37830

chase Order #: | Proj. Name / No.: | Katahdin Quote #:

(if different than above) | Address:

mpler (Print / Sign): Ronnie Moody / Ronnie Moody | Copies To:

AB USE ONLY | WORK ORDER #: 5B6582

KATAHDIN PROJECT NUMBER ____

MARKS: ____

IPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

BILL NO: ____

MP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC (Filt. ☐Y ☒N)	TOC (Filt. ☐Y ☒N)	Nitrate (Filt. ☐Y ☒N)	Total Iron (Filt. ☐Y ☒N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
ØØ2T1113Ø8	11/13/08/1100	W	3	3									
ØØ2GØ2DA15	11/13/08/1112	GW	7	3	2	1	1						
ØØ2G24DA15	11/13/08/1135	GW	7	3	2	1	1						
ØØ2G25DA15	11/13/08/1247	GW	7	3	2	1	1						
ØØ2G28DA15	11/13/08/1350	GW	7	3	2	1	1						
ØØ2WEASTØ5	11/13/08/1415	SW	3	3									
ØØ2WCENTØ5	11/13/08/1421	SW	3	3									
ØØ2WWESTØ5	11/13/08/1430	SW	3	3									
ØØ2G26DA15	11/13/08/1435	GW	3	3									
ØØ2F1113Ø8	11/13/08/1520	W	3	3									
ØØ2E1113Ø8	11/13/08/1540	W	3	3									
ØØ2GØ3DA15	11/13/08/1540	GW	7	3	2	1	1						
ØØ2H28DA15	11/13/08/1350	GW	3	3									
	/												
	/												
	/												

MENTS

elinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
onnie Moody	11/13/08 / 1730				
elinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
					000007

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Nov. 14, 2008
11:16 AM

Login Number: SB6582

Account: SPECTRA001 NoWeb
Spectra Tech, Inc.

Project: SPECTRANSA001

imary Report Address:
Paul Gentry
Spectra Tech, Inc.
132 Jefferson Court

Oak Ridge,TN 37830
pgentry@spectratechinc.com

imary Invoice Address:
Accounts Payable
Spectra Tech, Inc.
132 Jefferson Court

Oak Ridge,TN 37830

port CC Addresses:
voice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	Rpt to MDL
CHECK NO.	:	
CLIENT PO#	:	N62467-OSG
COOLER TEMPERATURE	:	2.1
DELIVERY SERVICES	:	Fed Ex
EDD FORMAT	:	KAS105QC-CSV
PM	:	SMB
PROJECT NAME	:	NSA South Millington
QC LEVEL	:	IV
REGULATORY LIST	:	NFESC
REPORT INSTRUCTIONS	:	Send copy of rpt & EDD on CD
SDG ID	:	NSA-048
SDG STATUS	:	Begin/End

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SB6582-1	002T111308	13-NOV-08 11:00	14-NOV-08			04-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-NOV-08	40mL Vial+HCl	3	

SB6582-2	002G02DA15	13-NOV-08 11:12	14-NOV-08			04-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	15-NOV-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	11-DEC-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	12-MAY-09			
Aqueous	S	SW6010-IRON	12-MAY-09	250mL Plastic+HNO3	1	
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-NOV-08	40mL Vial+HCl	3	

SB6582-3	002G24DA15	13-NOV-08 11:35	14-NOV-08			04-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	15-NOV-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	11-DEC-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	12-MAY-09			
Aqueous	S	SW6010-IRON	12-MAY-09	250mL Plastic+HNO3	1	
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-NOV-08	40mL Vial+HCl	3	

SB6582-4	002G25DA15	13-NOV-08 12:47	14-NOV-08			04-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	15-NOV-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	11-DEC-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	12-MAY-09			
Aqueous	S	SW6010-IRON	12-MAY-09	250mL Plastic+HNO3	1	
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-NOV-08	40mL Vial+HCl	3	

SB6582-5	002G28DA15	13-NOV-08 13:50	14-NOV-08			04-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	15-NOV-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	11-DEC-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	12-MAY-09			
Aqueous	S	SW6010-IRON	12-MAY-09	250mL Plastic+HNO3	1	
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-NOV-08	40mL Vial+HCl	3	

0000008

Katahdin ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Nov. 14, 2008
11:16 AM

Login Number: SB6582

Account: SPECTRA001 NoWeb
Spectra Tech, Inc.

Project: SPECTRANSA001

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SB6582-6	002WEAST05	13-NOV-08 14:15	14-NOV-08			04-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-NOV-08	40mL Vial+HCl	3	

SB6582-7	002WCENT05	13-NOV-08 14:21	14-NOV-08			04-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-NOV-08	40mL Vial+HCl	3	

SB6582-8	002WWEST05	13-NOV-08 14:30	14-NOV-08			04-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-NOV-08	40mL Vial+HCl	3	

SB6582-9	002G26DA15	13-NOV-08 14:35	14-NOV-08			04-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-NOV-08	40mL Vial+HCl	3	

SB6582-10	002F111308	13-NOV-08 15:20	14-NOV-08			04-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-NOV-08	40mL Vial+HCl	3	

SB6582-11	002E111308	13-NOV-08 15:40	14-NOV-08			04-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-NOV-08	40mL Vial+HCl	3	

SB6582-12	002G03DA15	13-NOV-08 15:40	14-NOV-08			04-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	15-NOV-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	11-DEC-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	12-MAY-09			
Aqueous	S	SW6010-IRON	12-MAY-09	250mL Plastic+HNO3	1	
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-NOV-08	40mL Vial+HCl	3	

SB6582-13	002H28DA15	13-NOV-08 13:50	14-NOV-08			04-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-NOV-08	40mL Vial+HCl	3	

Total Samples: *13* ***Total Analyses:*** *46*

SAMPLE DATA SUMMARY PACKAGE

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

U Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).

or

J Used for Pesticide/Aroclor analyte when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

(Refer to BOD Qualifiers Page for BOD footnotes)

U	Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.
E	Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.
J	Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).
I-7	The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
A-4	Please refer to cover letter or narrative for further information.
MCL	Maximum Contaminant Level
NL	No limit
NFL	No Free Liquid Present
FLP	Free Liquid Present
NOD	No Odor Detected
H1	Please note that the regulatory holding time for pH is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. pH for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.
H2	Please note that the regulatory holding time for DO is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. DO for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.
H3	Please note that the regulatory holding time for sulfite is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Sulfite for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.
H4	Please note that the regulatory holding time for residual chlorine is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Residual chlorine for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

METALS SAMPLE FLAGGING

FLAG	SPECIFIED MEANING
E	The reported value is estimated because of the presence of interference (as indicated by serial dilution).
N	Spiked sample recovery not within control limits.
*	Duplicate sample analysis not within control limits.
●	Analytical run QC sample (e.g. ICV, CCV, ICB, CCB, ICSA, ICSAB) not within control limits.
U	The analyte was not detected in the sample at a level greater than the instrument detection limit or greater than the method detection limit.
B	The analyte was detected in the sample at a concentration greater than the instrument detection limit or greater than the method detection limit, but less than the laboratory's Practical Quantitation Level (PQL).

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 19-NOV-2008 20:27
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-1
Client ID: 002T111308
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG58279
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	JB	1.0	1.0	5	5	0.3
67-64-1	Acetone	J	2	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-88-3	Toluene	U	1	1.0	1	1	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
460-00-4	P-Bromofluorobenzene		111%				
2037-26-5	Toluene-D8		109%				
17060-07-0	1,2-Dichloroethane-D4		110%				
1868-53-7	Dibromofluoromethane		108%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002T111308

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-048

Matrix: (soil/water) WATER

Lab Sample ID: SB6582-1

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: T2394

Level: (low/med) LOW

Date Received: 11/14/08

% Moisture: not dec. _____

Date Analyzed: 11/19/08

GC Column: RTX-VMS ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 19-NOV-2008 20:59
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-2
Client ID: 002G02DA15
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG58279
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride		25	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	J	0.9	1.0	1	1	0.3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene		40	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene	E	260	1.0	1	1	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene		38	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-88-3	Toluene	U	1	1.0	1	1	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
460-00-4	P-Bromofluorobenzene		106%				
2037-26-5	Toluene-D8		107%				
17060-07-0	1,2-Dichloroethane-D4		108%				
1868-53-7	Dibromofluoromethane		107%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002G02DA15

Lab Name: KATAHDIN ANALYTICAL SERVICES — Lab Code: KAS

Project: NSA SOUTH MILLINGTON — SDG No.: NSA-048

Matrix: (soil/water) WATER — Lab Sample ID: SB6582-2

Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: T2395

Level: (low/med) LOW — Date Received: 11/14/08

% Moisture: not dec. _____ — Date Analyzed: 11/19/08

GC Column: RTX-VMS ID: 0.18 (mm) — Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) — Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 20-NOV-2008 14:39
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-2DL
Client ID: 002G02DA15
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG58318
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	8	4.0	2	8	1
75-01-4	Vinyl chloride		21	4.0	2	8	1
74-83-9	Bromomethane	U	8	4.0	2	8	1
75-00-3	Chloroethane	U	8	4.0	2	8	1
75-35-4	1,1-Dichloroethene	U	4	4.0	1	4	1
75-15-0	Carbon Disulfide	U	4	4.0	1	4	1
75-09-2	Methylene Chloride	JB	4	4.0	5	20	1
67-64-1	Acetone	U	20	4.0	5	20	8
156-60-5	trans-1,2-Dichloroethene		34	4.0	1	4	1
75-34-3	1,1-Dichloroethane	U	4	4.0	1	4	0.9
156-59-2	cis-1,2-Dichloroethene		240	4.0	1	4	1.0
67-66-3	Chloroform	U	4	4.0	1	4	0.9
56-23-5	Carbon Tetrachloride	U	4	4.0	1	4	1
71-55-6	1,1,1-Trichloroethane	U	4	4.0	1	4	1
78-93-3	2-Butanone	U	20	4.0	5	20	5
71-43-2	Benzene	U	4	4.0	1	4	1
107-06-2	1,2-Dichloroethane	U	4	4.0	1	4	1
79-01-6	Trichloroethene		33	4.0	1	4	1
78-87-5	1,2-Dichloropropane	U	4	4.0	1	4	1
75-27-4	Bromodichloromethane	U	4	4.0	1	4	1
10061-01-5	cis-1,3-dichloropropene	U	4	4.0	1	4	1
108-88-3	Toluene	U	4	4.0	1	4	1
108-10-1	4-methyl-2-pentanone	U	20	4.0	5	20	8
127-18-4	Tetrachloroethene	U	4	4.0	1	4	2
10061-02-6	trans-1,3-Dichloropropene	U	4	4.0	1	4	1
79-00-5	1,1,2-Trichloroethane	U	4	4.0	1	4	1
124-48-1	Dibromochloromethane	U	4	4.0	1	4	1
591-78-6	2-Hexanone	U	20	4.0	5	20	7
108-90-7	Chlorobenzene	U	4	4.0	1	4	1
100-41-4	Ethylbenzene	U	4	4.0	1	4	1
1330-20-7	Xylenes (total)	U	12	4.0	3	12	1
	m+p-Xylenes	U	8	4.0	2	8	3
95-47-6	o-Xylene	U	4	4.0	1	4	1
100-42-5	Styrene	U	4	4.0	1	4	1
75-25-2	Bromoform	U	4	4.0	1	4	1
79-34-5	1,1,2,2-Tetrachloroethane	U	4	4.0	1	4	1
460-00-4	P-Bromofluorobenzene		110%				
2037-26-5	Toluene-D8		109%				
17060-07-0	1,2-Dichloroethane-D4		107%				
1868-53-7	Dibromofluoromethane		107%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 19-NOV-2008 21:31
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-3
Client ID: 002G24DA15
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG58279
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	J	0.3	1.0	2	2	0.3
75-01-4	Vinyl chloride		63	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene		4	1.0	1	1	0.3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	E	590	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene	E	1600	1.0	1	1	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	J	0.4	1.0	1	1	0.3
79-01-6	Trichloroethene		180	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-88-3	Toluene	U	1	1.0	1	1	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
460-00-4	P-Bromofluorobenzene		106%				
2037-26-5	Toluene-D8		108%				
17060-07-0	1,2-Dichloroethane-D4		112%				
1868-53-7	Dibromofluoromethane		111%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002G24DA15

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-048

Matrix: (soil/water) WATER

Lab Sample ID: SB6582-3

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: T2396

Level: (low/med) LOW

Date Received: 11/14/08

% Moisture: not dec. _____

Date Analyzed: 11/19/08

GC Column: RTX-VMS ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 20-NOV-2008 15:11
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-3DL
Client ID: 002G24DA15
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG58318
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	40	20	2	40	5
75-01-4	Vinyl chloride		50	20	2	40	5
74-83-9	Bromomethane	U	40	20	2	40	7
75-00-3	Chloroethane	U	40	20	2	40	7
75-35-4	1,1-Dichloroethene	U	20	20	1	20	5
75-15-0	Carbon Disulfide	U	20	20	1	20	5
75-09-2	Methylene Chloride	JB	19	20	5	100	6
67-64-1	Acetone	U	100	20	5	100	42
156-60-5	trans-1,2-Dichloroethene		520	20	1	20	7
75-34-3	1,1-Dichloroethane	U	20	20	1	20	4
156-59-2	cis-1,2-Dichloroethene		2000	20	1	20	5
67-66-3	Chloroform	U	20	20	1	20	4
56-23-5	Carbon Tetrachloride	U	20	20	1	20	7
71-55-6	1,1,1-Trichloroethane	U	20	20	1	20	6
78-93-3	2-Butanone	U	100	20	5	100	27
71-43-2	Benzene	U	20	20	1	20	6
107-06-2	1,2-Dichloroethane	U	20	20	1	20	5
79-01-6	Trichloroethene		140	20	1	20	7
78-87-5	1,2-Dichloropropane	U	20	20	1	20	6
75-27-4	Bromodichloromethane	U	20	20	1	20	5
10061-01-5	cis-1,3-dichloropropene	U	20	20	1	20	6
108-88-3	Toluene	U	20	20	1	20	7
108-10-1	4-methyl-2-pentanone	U	100	20	5	100	38
127-18-4	Tetrachloroethene	U	20	20	1	20	8
10061-02-6	trans-1,3-Dichloropropene	U	20	20	1	20	5
79-00-5	1,1,2-Trichloroethane	U	20	20	1	20	6
124-48-1	Dibromochloromethane	U	20	20	1	20	5
591-78-6	2-Hexanone	U	100	20	5	100	34
108-90-7	Chlorobenzene	U	20	20	1	20	5
100-41-4	Ethylbenzene	U	20	20	1	20	6
1330-20-7	Xylenes (total)	U	60	20	3	60	5
	m+p-Xylenes	U	40	20	2	40	14
95-47-6	o-Xylene	U	20	20	1	20	5
100-42-5	Styrene	U	20	20	1	20	5
75-25-2	Bromoform	U	20	20	1	20	7
79-34-5	1,1,2,2-Tetrachloroethane	U	20	20	1	20	6
460-00-4	P-Bromofluorobenzene		111%				
2037-26-5	Toluene-D8		107%				
17060-07-0	1,2-Dichloroethane-D4		104%				
1868-53-7	Dibromofluoromethane		108%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 20-NOV-2008 13:35
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-4RA
Client ID: 002G25DA15
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG58318
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	J	0.3	1.0	2	2	0.3
75-01-4	Vinyl chloride		2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene		18	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene		63	1.0	1	1	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene		26	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-88-3	Toluene	U	1	1.0	1	1	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
460-00-4	P-Bromofluorobenzene		116%				
2037-26-5	Toluene-D8		112%				
17060-07-0	1,2-Dichloroethane-D4		108%				
1868-53-7	Dibromofluoromethane		113%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002G25DA15

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-048

Matrix: (soil/water) WATER

Lab Sample ID: SB6582-4RA

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: T2409

Level: (low/med) LOW

Date Received: 11/14/08

% Moisture: not dec. _____

Date Analyzed: 11/20/08

GC Column: RTX-VMS ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 20-NOV-2008 15:43
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-5DL
Client ID: 002G28DA15
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG58318
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	40	20	2	40	5
75-01-4	Vinyl chloride	J	37	20	2	40	5
74-83-9	Bromomethane	U	40	20	2	40	7
75-00-3	Chloroethane	U	40	20	2	40	7
75-35-4	1,1-Dichloroethene	U	20	20	1	20	5
75-15-0	Carbon Disulfide	U	20	20	1	20	5
75-09-2	Methylene Chloride	JB	20	20	5	100	6
67-64-1	Acetone	U	100	20	5	100	42
156-60-5	trans-1,2-Dichloroethene		350	20	1	20	7
75-34-3	1,1-Dichloroethane	U	20	20	1	20	4
156-59-2	cis-1,2-Dichloroethene		1600	20	1	20	5
67-66-3	Chloroform	U	20	20	1	20	4
56-23-5	Carbon Tetrachloride	U	20	20	1	20	7
71-55-6	1,1,1-Trichloroethane	U	20	20	1	20	6
78-93-3	2-Butanone	U	100	20	5	100	27
71-43-2	Benzene	U	20	20	1	20	6
107-06-2	1,2-Dichloroethane	U	20	20	1	20	5
79-01-6	Trichloroethene		110	20	1	20	7
78-87-5	1,2-Dichloropropane	U	20	20	1	20	6
75-27-4	Bromodichloromethane	U	20	20	1	20	5
10061-01-5	cis-1,3-dichloropropene	U	20	20	1	20	6
108-88-3	Toluene	U	20	20	1	20	7
108-10-1	4-methyl-2-pentanone	U	100	20	5	100	38
127-18-4	Tetrachloroethene	U	20	20	1	20	8
10061-02-6	trans-1,3-Dichloropropene	U	20	20	1	20	5
79-00-5	1,1,2-Trichloroethane	U	20	20	1	20	6
124-48-1	Dibromochloromethane	U	20	20	1	20	5
591-78-6	2-Hexanone	U	100	20	5	100	34
108-90-7	Chlorobenzene	U	20	20	1	20	5
100-41-4	Ethylbenzene	U	20	20	1	20	6
1330-20-7	Xylenes (total)	U	60	20	3	60	5
	m+p-Xylenes	U	40	20	2	40	14
95-47-6	o-Xylene	U	20	20	1	20	5
100-42-5	Styrene	U	20	20	1	20	5
75-25-2	Bromoform	U	20	20	1	20	7
79-34-5	1,1,2,2-Tetrachloroethane	U	20	20	1	20	6
460-00-4	P-Bromofluorobenzene		113%				
2037-26-5	Toluene-D8		114%				
17060-07-0	1,2-Dichloroethane-D4		108%				
1868-53-7	Dibromofluoromethane		111%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 20-NOV-2008 20:34
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-5DL2
Client ID: 002G28DA15
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG58318
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	4	2.0	2	4	0.5
75-01-4	Vinyl chloride		47	2.0	2	4	0.5
74-83-9	Bromomethane	U	4	2.0	2	4	0.7
75-00-3	Chloroethane	U	4	2.0	2	4	0.7
75-35-4	1,1-Dichloroethene		3	2.0	1	2	0.5
75-15-0	Carbon Disulfide	U	2	2.0	1	2	0.5
75-09-2	Methylene Chloride	JB	2	2.0	5	10	0.6
67-64-1	Acetone	U	10	2.0	5	10	4
156-60-5	trans-1,2-Dichloroethene	E	420	2.0	1	2	0.7
75-34-3	1,1-Dichloroethane	U	2	2.0	1	2	0.4
156-59-2	cis-1,2-Dichloroethene	E	1700	2.0	1	2	0.5
67-66-3	Chloroform	U	2	2.0	1	2	0.4
56-23-5	Carbon Tetrachloride	U	2	2.0	1	2	0.7
71-55-6	1,1,1-Trichloroethane	U	2	2.0	1	2	0.6
78-93-3	2-Butanone	U	10	2.0	5	10	3
71-43-2	Benzene	U	2	2.0	1	2	0.6
107-06-2	1,2-Dichloroethane	U	2	2.0	1	2	0.5
79-01-6	Trichloroethene		130	2.0	1	2	0.7
78-87-5	1,2-Dichloropropane	U	2	2.0	1	2	0.6
75-27-4	Bromodichloromethane	U	2	2.0	1	2	0.5
10061-01-5	cis-1,3-dichloropropene	U	2	2.0	1	2	0.6
108-88-3	Toluene	U	2	2.0	1	2	0.7
108-10-1	4-methyl-2-pentanone	U	10	2.0	5	10	4
127-18-4	Tetrachloroethene	U	2	2.0	1	2	0.8
10061-02-6	trans-1,3-Dichloropropene	U	2	2.0	1	2	0.5
79-00-5	1,1,2-Trichloroethane	U	2	2.0	1	2	0.6
124-48-1	Dibromochloromethane	U	2	2.0	1	2	0.5
591-78-6	2-Hexanone	U	10	2.0	5	10	3
108-90-7	Chlorobenzene	U	2	2.0	1	2	0.5
100-41-4	Ethylbenzene	U	2	2.0	1	2	0.6
1330-20-7	Xylenes (total)	U	6	2.0	3	6	0.5
	m+p-Xylenes	U	4	2.0	2	4	1
95-47-6	o-Xylene	U	2	2.0	1	2	0.5
100-42-5	Styrene	U	2	2.0	1	2	0.5
75-25-2	Bromoform	U	2	2.0	1	2	0.7
79-34-5	1,1,2,2-Tetrachloroethane	U	2	2.0	1	2	0.6
460-00-4	P-Bromofluorobenzene		107%				
2037-26-5	Toluene-D8		105%				
17060-07-0	1,2-Dichloroethane-D4		112%				
1868-53-7	Dibromofluoromethane		110%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002G28DA15

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-048

Matrix: (soil/water) WATER

Lab Sample ID: SB6582-5DL2

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: T2422

Level: (low/med) LOW

Date Received: 11/14/08

% Moisture: not dec. _____

Date Analyzed: 11/20/08

GC Column: RTX-VMS ID: 0.18 (mm)

Dilution Factor: 2.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 20-NOV-2008 17:20
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-6
Client ID: 002WEAST05
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG58318
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	J	0.3	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone		5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-88-3	Toluene	U	1	1.0	1	1	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
460-00-4	P-Bromofluorobenzene		110%				
2037-26-5	Toluene-D8		110%				
17060-07-0	1,2-Dichloroethane-D4		112%				
1868-53-7	Dibromofluoromethane		112%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002WEAST05

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-048

Matrix: (soil/water) WATER Lab Sample ID: SB6582-6

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: T2416

Level: (low/med) LOW Date Received: 11/14/08

% Moisture: not dec. _____ Date Analyzed: 11/20/08

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 20-NOV-2008 17:52
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-7
Client ID: 002WCENT05
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG58318
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	J	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-88-3	Toluene	U	1	1.0	1	1	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
460-00-4	P-Bromofluorobenzene		113%				
2037-26-5	Toluene-D8		110%				
17060-07-0	1,2-Dichloroethane-D4		109%				
1868-53-7	Dibromofluoromethane		113%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002WCENT05

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-048

Matrix: (soil/water) WATER Lab Sample ID: SB6582-7

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: T2417

Level: (low/med) LOW Date Received: 11/14/08

% Moisture: not dec. _____ Date Analyzed: 11/20/08

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 20-NOV-2008 18:24
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-8
Client ID: 002WWEST05
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG58318
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	J	0.3	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	J	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-88-3	Toluene	U	1	1.0	1	1	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
460-00-4	P-Bromofluorobenzene		112%				
2037-26-5	Toluene-D8		111%				
17060-07-0	1,2-Dichloroethane-D4		113%				
1868-53-7	Dibromofluoromethane		112%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002WWEST05

Lab Name: KATAHDIN ANALYTICAL SERVICES — Lab Code: KAS

Project: NSA SOUTH MILLINGTON — SDG No.: NSA-048

Matrix: (soil/water) WATER — Lab Sample ID: SB6582-8

Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: T2418

Level: (low/med) LOW — Date Received: 11/14/08

% Moisture: not dec. _____ — Date Analyzed: 11/20/08

GC Column: RTX-VMS ID: 0.18 (mm) — Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) — Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 20-NOV-2008 18:56
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-9
Client ID: 002G26DA15
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG58318
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-88-3	Toluene	U	1	1.0	1	1	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
460-00-4	P-Bromofluorobenzene		111%				
2037-26-5	Toluene-D8		109%				
17060-07-0	1,2-Dichloroethane-D4		111%				
1868-53-7	Dibromofluoromethane		112%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002G26DA15

Lab Name: KATAHDIN ANALYTICAL SERVICES — Lab Code: KAS

Project: NSA SOUTH MILLINGTON — SDG No.: NSA-048

Matrix: (soil/water) WATER — Lab Sample ID: SB6582-9

Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: T2419

Level: (low/med) LOW — Date Received: 11/14/08

% Moisture: not dec. _____ — Date Analyzed: 11/20/08

GC Column: RTX-VMS ID: 0.18 (mm) — Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) — Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 20-NOV-2008 19:29
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-10
Client ID: 002F111308
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG58318
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-88-3	Toluene	U	1	1.0	1	1	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
460-00-4	P-Bromofluorobenzene		112%				
2037-26-5	Toluene-D8		112%				
17060-07-0	1,2-Dichloroethane-D4		116%				
1868-53-7	Dibromofluoromethane		114%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002F111308

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-048

Matrix: (soil/water) WATER

Lab Sample ID: SB6582-10

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: T2420

Level: (low/med) LOW

Date Received: 11/14/08

% Moisture: not dec. _____

Date Analyzed: 11/20/08

GC Column: RTX-VMS ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 20-NOV-2008 20:01
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-11
Client ID: 002E111308
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG58318
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-88-3	Toluene	U	1	1.0	1	1	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
460-00-4	P-Bromofluorobenzene		113%				
2037-26-5	Toluene-D8		108%				
17060-07-0	1,2-Dichloroethane-D4		114%				
1868-53-7	Dibromofluoromethane		112%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002E111308

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-048

Matrix: (soil/water) WATER

Lab Sample ID: SB6582-11

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: T2421

Level: (low/med) LOW

Date Received: 11/14/08

% Moisture: not dec. _____

Date Analyzed: 11/20/08

GC Column: RTX-VMS ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 22-NOV-2008 13:19
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-12
Client ID: 002G03DA15
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG58404
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride		82	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene		4	1.0	1	1	0.3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	E	530	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene	E	1500	1.0	1	1	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	J	0.3	1.0	1	1	0.3
79-01-6	Trichloroethene	E	760	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-88-3	Toluene	U	1	1.0	1	1	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
460-00-4	P-Bromofluorobenzene		100%				
2037-26-5	Toluene-D8		106%				
17060-07-0	1,2-Dichloroethane-D4		100%				
1868-53-7	Dibromofluoromethane		102%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002G03DA15

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-048

Matrix: (soil/water) WATER

Lab Sample ID: SB6582-12

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: M8784

Level: (low/med) LOW

Date Received: 11/14/08

% Moisture: not dec. _____

Date Analyzed: 11/22/08

GC Column: RTX-VMS ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 24-NOV-2008 15:44
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-12DL
Client ID: 002G03DA15
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG58477
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	40	20	2	40	5
75-01-4	Vinyl chloride		71	20	2	40	5
74-83-9	Bromomethane	U	40	20	2	40	7
75-00-3	Chloroethane	U	40	20	2	40	7
75-35-4	1,1-Dichloroethene	U	20	20	1	20	5
75-15-0	Carbon Disulfide	U	20	20	1	20	5
75-09-2	Methylene Chloride	JB	7	20	5	100	6
67-64-1	Acetone	U	100	20	5	100	42
156-60-5	trans-1,2-Dichloroethene		590	20	1	20	7
75-34-3	1,1-Dichloroethane	U	20	20	1	20	4
156-59-2	cis-1,2-Dichloroethene		2200	20	1	20	5
67-66-3	Chloroform	U	20	20	1	20	4
56-23-5	Carbon Tetrachloride	U	20	20	1	20	7
71-55-6	1,1,1-Trichloroethane	U	20	20	1	20	6
78-93-3	2-Butanone	U	100	20	5	100	27
71-43-2	Benzene	U	20	20	1	20	6
107-06-2	1,2-Dichloroethane	U	20	20	1	20	5
79-01-6	Trichloroethene		1100	20	1	20	7
78-87-5	1,2-Dichloropropane	U	20	20	1	20	6
75-27-4	Bromodichloromethane	U	20	20	1	20	5
10061-01-5	cis-1,3-dichloropropene	U	20	20	1	20	6
108-88-3	Toluene	U	20	20	1	20	7
108-10-1	4-methyl-2-pentanone	U	100	20	5	100	38
127-18-4	Tetrachloroethene	U	20	20	1	20	8
10061-02-6	trans-1,3-Dichloropropene	U	20	20	1	20	5
79-00-5	1,1,2-Trichloroethane	U	20	20	1	20	6
124-48-1	Dibromochloromethane	U	20	20	1	20	5
591-78-6	2-Hexanone	U	100	20	5	100	34
108-90-7	Chlorobenzene	U	20	20	1	20	5
100-41-4	Ethylbenzene	U	20	20	1	20	6
1330-20-7	Xylenes (total)	U	60	20	3	60	5
	m+p-Xylenes	U	40	20	2	40	14
95-47-6	o-Xylene	U	20	20	1	20	5
100-42-5	Styrene	U	20	20	1	20	5
75-25-2	Bromoform	U	20	20	1	20	7
79-34-5	1,1,2,2-Tetrachloroethane	U	20	20	1	20	6
460-00-4	P-Bromofluorobenzene		100%				
2037-26-5	Toluene-D8		100%				
17060-07-0	1,2-Dichloroethane-D4		107%				
1868-53-7	Dibromofluoromethane		102%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 22-NOV-2008 13:53
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-13
Client ID: 002H28DA15
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG58404
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride		40	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene		2	1.0	1	1	0.3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-09-2	Methylene Chloride	JB	1	1.0	5	5	0.3
67-64-1	Acetone	J	2	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	E	300	1.0	1	1	0.4
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene	E	1100	1.0	1	1	0.2
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	J	0.5	1.0	1	1	0.3
79-01-6	Trichloroethene		110	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-88-3	Toluene	U	1	1.0	1	1	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
460-00-4	P-Bromofluorobenzene		101%				
2037-26-5	Toluene-D8		104%				
17060-07-0	1,2-Dichloroethane-D4		101%				
1868-53-7	Dibromofluoromethane		102%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

002H28DA15

Lab Name: KATAHDIN ANALYTICAL SERVICES — Lab Code: KAS

Project: NSA SOUTH MILLINGTON — SDG No.: NSA-048

Matrix: (soil/water) WATER — Lab Sample ID: SB6582-13

Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: M8785

Level: (low/med) LOW — Date Received: 11/14/08

% Moisture: not dec. _____ — Date Analyzed: 11/22/08

GC Column: RTX-VMS ID: 0.18 (mm) — Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) — Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
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11.					
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17.					
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26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 11/13/08
Received Date: 11/14/08
Extraction Date:
Analysis Date: 24-NOV-2008 16:18
Report Date: 12/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6582-13DL
Client ID: 002H28DA15
SDG: NSA-048
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG58477
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	40	20	2	40	5
75-01-4	Vinyl chloride	J	31	20	2	40	5
74-83-9	Bromomethane	U	40	20	2	40	7
75-00-3	Chloroethane	U	40	20	2	40	7
75-35-4	1,1-Dichloroethene	U	20	20	1	20	5
75-15-0	Carbon Disulfide	U	20	20	1	20	5
75-09-2	Methylene Chloride	JB	10	20	5	100	6
67-64-1	Acetone	U	100	20	5	100	42
156-60-5	trans-1,2-Dichloroethene		300	20	1	20	7
75-34-3	1,1-Dichloroethane	U	20	20	1	20	4
156-59-2	cis-1,2-Dichloroethene		1300	20	1	20	5
67-66-3	Chloroform	U	20	20	1	20	4
56-23-5	Carbon Tetrachloride	U	20	20	1	20	7
71-55-6	1,1,1-Trichloroethane	U	20	20	1	20	6
78-93-3	2-Butanone	U	100	20	5	100	27
71-43-2	Benzene	U	20	20	1	20	6
107-06-2	1,2-Dichloroethane	U	20	20	1	20	5
79-01-6	Trichloroethene		98	20	1	20	7
78-87-5	1,2-Dichloropropane	U	20	20	1	20	6
75-27-4	Bromodichloromethane	U	20	20	1	20	5
10061-01-5	cis-1,3-dichloropropene	U	20	20	1	20	6
108-88-3	Toluene	U	20	20	1	20	7
108-10-1	4-methyl-2-pentanone	U	100	20	5	100	38
127-18-4	Tetrachloroethene	U	20	20	1	20	8
10061-02-6	trans-1,3-Dichloropropene	U	20	20	1	20	5
79-00-5	1,1,2-Trichloroethane	U	20	20	1	20	6
124-48-1	Dibromochloromethane	U	20	20	1	20	5
591-78-6	2-Hexanone	U	100	20	5	100	34
108-90-7	Chlorobenzene	U	20	20	1	20	5
100-41-4	Ethylbenzene	U	20	20	1	20	6
1330-20-7	Xylenes (total)	U	60	20	3	60	5
	m+p-Xylenes	U	40	20	2	40	14
95-47-6	o-Xylene	U	20	20	1	20	5
100-42-5	Styrene	U	20	20	1	20	5
75-25-2	Bromoform	U	20	20	1	20	7
79-34-5	1,1,2,2-Tetrachloroethane	U	20	20	1	20	6
460-00-4	P-Bromofluorobenzene		99%				
2037-26-5	Toluene-D8		100%				
17060-07-0	1,2-Dichloroethane-D4		106%				
1868-53-7	Dibromofluoromethane		98%				

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 002G02DA15

Matrix: WATER **SDG Name:** NSA-048

Percent Solids: 0.00 **Lab Sample ID:** SB6582-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	14600			P	1	100	9.00

Bottle ID: G

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 002G24DA15

Matrix: WATER **SDG Name:** NSA-048

Percent Solids: 0.00 **Lab Sample ID:** SB6582-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	17700			P	1	100	9.00

Bottle ID: G

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 002G25DA15

Matrix: WATER **SDG Name:** NSA-048

Percent Solids: 0.00 **Lab Sample ID:** SB6582-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	7030			P	1	100	9.00

Bottle ID: G

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 002G28DA15

Matrix: WATER **SDG Name:** NSA-048

Percent Solids: 0.00 **Lab Sample ID:** SB6582-005

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	16700			P	1	100	9.00

Bottle ID: G

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 002G03DA15

Matrix: WATER **SDG Name:** NSA-048

Percent Solids: 0.00 **Lab Sample ID:** SB6582-012

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	12700			P	1	100	9.00

Bottle ID: G

Comments:

Katahdin
NALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Paul Gentry
Spectra Tech, Inc.
132 Jefferson Court
Oak Ridge,TN 37830

Lab Sample ID: SB6582-2
Report Date: 04-DEC-08
Client PO: N62467-OSG
Project: NSA South Millington
SDG: NSA-048

Sample Description	Matrix	Date Sampled	Date Received
002G02DA15	AQ	13-NOV-08	14-NOV-08

arameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
litrate As N	U0.050 mg/L	.05	EPA 353.2	WG58085	14-NOV-08 17:48:35	N/A	N/A	CP	
otal Organic Carbon	1.3 mg/L	1	EPA 415.1	WG58614	28-NOV-08 18:37:07	N/A	N/A	CP	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Paul Gentry
Spectra Tech, Inc.
132 Jefferson Court
Oak Ridge,TN 37830

Lab Sample ID: SB6582-3
Report Date: 04-DEC-08
Client PO: N62467-OSG
Project: NSA South Millington
SDG: NSA-048

Sample Description	Matrix	Date Sampled	Date Received
002G24DA15	AQ	13-NOV-08	14-NOV-08

arameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
itrate As N	J0.040 mg/L	.05	EPA 353.2	WG58085	14-NOV-08 17:51:52	N/A	N/A	CP	
otal Organic Carbon	2.2 mg/L	1	EPA 415.1	WG58614	28-NOV-08 18:49:13	N/A	N/A	CP	

Katahdin
NALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Paul Gentry
Spectra Tech, Inc.
132 Jefferson Court
Oak Ridge,TN 37830

Lab Sample ID: SB6582-4
Report Date: 04-DEC-08
Client PO: N62467-OSG
Project: NSA South Millington
SDG: NSA-048

Sample Description	Matrix	Date Sampled	Date Received
002G25DA15	AQ	13-NOV-08	14-NOV-08

'arameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
litrate As N	U0.050 mg/L	.05	EPA 353.2	WG58085	14-NOV-08 17:52:58	N/A	N/A	CP	
'otal Organic Carbon	U1.0 mg/L	1	EPA 415.1	WG58614	28-NOV-08 19:01:13	N/A	N/A	CP	

Katahdin
NALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Paul Gentry
Spectra Tech, Inc.
132 Jefferson Court
Oak Ridge,TN 37830

Lab Sample ID: SB6582-5
Report Date: 04-DEC-08
Client PO: N62467-OSG
Project: NSA South Millington
SDG: NSA-048

Sample Description	Matrix	Date Sampled	Date Received
002G28DA15	AQ	13-NOV-08	14-NOV-08

arameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
itrate As N	J0.027 mg/L	.05	EPA 353.2	WG58085	14-NOV-08 17:54:04	N/A	N/A	CP	
otal Organic Carbon	1.8 mg/L	1	EPA 415.1	WG58614	28-NOV-08 19:13:09	N/A	N/A	CP	

Katahdin
NALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Paul Gentry
Spectra Tech, Inc.
132 Jefferson Court
Oak Ridge,TN 37830

Lab Sample ID: SB6582-12
Report Date: 04-DEC-08
Client PO: N62467-OSG
Project: NSA South Millington
SDG: NSA-048

Sample Description	Matrix	Date Sampled	Date Received
002G03DA15	AQ	13-NOV-08	14-NOV-08

arameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
itrate As N	U0.050 mg/L	.05	EPA 353.2	WG58085	14-NOV-08 17:55:10	N/A	N/A	CP	
otal Organic Carbon	1.8 mg/L	1	EPA 415.1	WG58614	28-NOV-08 19:39:34	N/A	N/A	CP	

Appendix B
VOC and Geochemical Results

Table B-1
VOC Results During Interim Measures
SWMU-2 NSA-Midsouth

Monitoring Well	Constituent	Concentration (µg/L)								
		Jul-01	Jan-02	Jul-02	Sep-05	May-06	May-07	Nov-07	May-08	Nov-08
002G01DA	TCE	ND	ND	ND	NS	NS	NS	NS	NS	NS
	cis-1,2-DCE	ND	ND	ND	NS	NS	NS	NS	NS	NS
	trans-1,2DCE	ND	ND	ND	NS	NS	NS	NS	NS	NS
	VC	ND	ND	ND	NS	NS	NS	NS	NS	NS
002G02DA	TCE	7	2	11	130	50	13	21	67	38
	cis-1,2-DCE	5	2	10	250	80	17	32	120 J	240
	trans-1,2-DCE	ND	ND	2	47	ND	4	6	24	48
	VC	ND	ND	0.5 J	38	8	2 J	3	13	25
002G03DA	TCE	520	280	590	1,500	1,800	2,100	1,800	1,500 J	1,100
	1,1-DCE	ND	5	ND	3	4	5	4	6	4
	cis-1,2-DCE	800	550	830	2,200	2,300	2,500	2,300	2,800 J	2,200
	trans-1,2-DCE	190	ND	ND	580	650	680	630	690	590
	VC	ND	26	22	94	72	110	110	120	82
	1,1,2-TCA	5 J	2 J	2	ND	ND	ND	ND	ND	ND
	Xylenes	ND	ND	ND	0.6 J	ND	ND	ND	ND	ND
	Benzene	ND	ND	ND	0.8 J	ND	ND	ND	ND	ND
002G24DA	TCE	140	110	200	130	130	190	35	110	180
	1,1-DCE	ND	ND	0.8 J	0.8 J	1 J	2	ND	3	4
	cis-1,2-DCE	250	350	740	750	760	1,100	560	1,400 J	2,000
	trans-1,2-DCE	72	77	160	190	220	350	100	400	520
	VC	5	14	16	21	19	32	7	45	63
	Bromoform	ND	2	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	0.3 J
	1,1,2-TCA	ND	0.4 J	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND		ND	ND	ND	ND	ND	ND	ND
002G25DA	TCE	38	15	25	60	90	52	42	32	26
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	0.3 J
	cis-1,2-DCE	110	39	59	140	160	100	86	65 J	63
	trans-1,2-DCE	27	10	21	40	51	33	26	20	18
	1,1,2-TCA	ND	ND	ND	ND	0.6 J	ND	ND	ND	ND
	VC	ND	2	2	7	6	4	3	2	2
002G26DA	TCE	ND	7	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-DCE	ND	35	ND	ND	1	ND	ND	ND	ND
	trans-1,2-DCE	ND	5	ND	ND	ND	ND	ND	ND	ND
	VC	ND	ND	ND	ND	ND	ND	ND	ND	ND
002G27DA	TCE	ND	0.8 J	ND	0.4	ND	ND	NS	NS	NS
	cis-1,2-DCE	ND	ND	ND	0.7 J	0.5 J	ND	NS	NS	NS
	trans-1,2-DCE	ND	0.5 J	ND	ND	ND	ND	NS	NS	NS
	VC	ND	ND	ND	ND	ND	ND	NS	NS	NS
002G28DA	Acetone	ND	ND	ND	ND	ND	ND	ND	ND	2 J
	TCE	74	21	97	290	400	540	450	320 J	130
	carbon disulfide	ND	0.1 J	ND	ND	ND	ND	ND	ND	ND
	1,1-DCE	ND	ND	ND	1 J	1 J	2 J	1 J	3	3
	cis-1,2-DCE	150	71	430	840	810	960	990	1,500 J	1,600
	trans-1,2-DCE	36	18	77	220	220	260	280	330	350
	VC	ND	ND	11	42	25	35	39	51	47
Surface Water Samples										
002WCENT	Acetone	ND	ND	ND	ND	4 J	ND	ND	ND	5 J
002WWEST	Acetone	ND	ND	ND	ND	ND	ND	ND	ND	5 J
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	0.3 J
002WEAST	Acetone	ND	ND	ND	ND	4 J	ND	ND	ND	0.3 J
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	0.3 J

Notes:

ug/L	micrograms per liter
NS	not sampled
ND	analyte not detected above the method detection limit
J	Estimated value

Table B-2
Geochemical Results
SWMU-2 NSA Midsouth

Parameter	Date	Monitoring Wells							
		002G01DA	002G02DA	002G03DA	002G24DA	002G25DA	002G26DA	002G27DA	002G28DA
Dissolved Oxygen (mg/L)	**Jul-01**	7.5	2.66	5.19	5.2	3.07	2.5	5.56	2.77
	Jan-02	8.91	0.31	0.26	2.02	0.37	2.9	0.34	5.91
	Jul-02	0.44	0.18	0.59	1.05	0.74	4.59	0.22	1.22
	Sep-05	NS	0.59	1.33	3.09	0.85	0.58	0.37	1.29
	May-06	NS	0.68	0.65	0.99	1	0.92	0.75	1.48
	May-07	NS	0.81	0.85	0.77	2.14	NS	NS	1.93
	Nov-07	NS	4.57*	1.6	8.81*	2.44	0.5	NS	1.07
	May-08	NS	0.23	0.63	0.39	1.07	0.07	NS	0.94
	Nov-08	NS	0.33	0.99	1.16	1.84	1.36	NS	0.77
ORP (mV)	**Jul-01**	16	-33	-53	-53	-72	-61	-45	-17
	Jan-02	-5	-48	-117	-51	-99	-72	-76	-94
	Jul-02	41	-45	-96	2	-63	40	-41	-105
	Sep-05	NS	-130.1	-128.3	-64.9	-129.9	-108.4	-100	-84.7
	May-06	NS	-51.7	-90.3	-83.6	-87.5	-72	-64.5	-105
	May-07	NS	-83.6	-112.6	-88.4	-251.2	NS	NS	-95.6
	Nov-07	NS	-51	-127	-109	-140	-97	NS	-152
	May-08	NS	-59.6	-185.3	-98	-175.3	-54.2	NS	-125.5
	Nov-08	NS	-89.9	-106.4	-111.5	-76.3	-66.6	NS	-114.4
Hydrogen (nM)	**Jul-01**	2.5	2.6	2.3	2.7	2.7	7.4	7.1	2.8
	Jan-02	1.8	2	1.4	8.2	4.2	2.5	3.4	1.8
	Jul-02	1.7	1.7	1.4	2.1	1.6	2	1.8	2.6
	Sep-05	NS	3.9	6	4.2	4.5	4.3	5.7	5
	May-06	NS	34	3.8	10	11	11	15	22
	May-07	NS	1.7	2.3	1.8	1.4	NS	NS	2.7
	Nov-07	NS	1.7	4.6	1.9	2.4	NS	NS	1.7
	May-08	NS	1.3	1.7	1.2	1.2	NS	NS	1.3
	Nov-08	NS	7.6	11	8.3	6.1	NS	NS	6.7
Methane (µg/L)	**Jul-01**	0.0	4	450	48	190	23	46	720
	Jan-02	0.0	18	2700	930	1900	28	27	2300
	Jul-02	10	60	2200	2200	1200	84	16	2000
	Sep-05	NS	480	2600	1200	670	77	16	1500
	May-06	NS	210	2700	2100	730	0.058	15	1800
	May-07	NS	39	2300	2000	550	NS	NS	280
	Nov-07	NS	46	2100	110	350	NS	NS	240
	May-08	NS	306.9	2200	892.3	375	NS	NS	614
	Nov-08	NS	280	2200	2200	550	NS	NS	1900
Alkalinity (mg/L)	**Jul-01**	163	248	353	336	328	263	244	300
	Jan-02	181	236	340	320	324	244	236	314
	Jul-02	164	279	340	320	318	242	234	311
	Sep-05	NS	420	320	360	320	320	260	360
	May-06	NS	240	320	360	320	220	240	340
	May-07	NS	220	380	320	320	NS	NS	320
	Nov-07	NS	260	360	300	300	NS	NS	320
	May-08	NS	460	400	340	320	NS	NS	360
	Nov-08	NS	320	360	340	320	NS	NS	340
Chloride (mg/L)	**Jul-01**	2.6	12.6	22.2	15.7	15.5	4.4	4.1	7.5
	Jan-02	4	8.3	21.3	15.7	15.9	4.6	4.1	10.8
	Jul-02	3.1	25.3	20.9	17.2	17.9	4.4	3.8	11.6
	Sep-05	NS	65	55	25	20	10	10	20
	May-06	NS	30	40	30	25	10	10	25
	May-07	NS	20	72	35	20	NS	NS	30
	Nov-07	NS	20	45	30	20	NS	NS	20
	May-08	NS	55	45	35	25	NS	NS	25
	Nov-08	NS	40	45	30	20	NS	NS	20
Ferrous Iron (mg/L)	**Jul-01**	1.86	0.07	0.05	0.07	2.77	2.12	2.8	0.1
	Jan-02	NA	3	4.4	2.38	0	2.19	2.68	2.92
	Jul-02	2.62	3.26	4.26	3.34	2.64	3.64	2.8	4.18
	Sep-05	NS	6.1	4	3.01	4.68	4.5	3.08	5.46
	May-06	NS	5.64	6	4.68	3.29	2.96	2.08	5.2
	May-07	NS	2.8	4.96 (1)	2.82	2.62	NS	NS	10.88 (2)
	Nov-07	NS	1.26	5.98 (1)	0.11	3.19	NS	NS	6.16 (1)
	May-08	NS	1.39	1.64	2.45	5.18 (1)	NS	NS	1.11
	Nov-08	NS	5.88	5.82	5.34	4.38	NS	NS	5.92
TOC (mg/L)	**Jul-01**	1.1	2.2	2.7	4.5	1.7	1.6	1.0 U	4.3
	Jan-02	7.7	2.3	12.6	17.4	17.1	12	13.1	14.9
	Jul-02	4.9	6.9	9	9.6	5.5	4.3	4.3	7.4
	Sep-05	NS	3.2	2	2.8	1.3	1	4.9	2.2
	May-06	NS	1.4	1.6	2.3	1.2	1.0 U	1.2	1.7
	May-07	NS	1.6	2.5	3.2	1.3	NS	NS	2.3
	Nov-07	NS	1.1	1.7	3	1.4	NS	NS	1.9
	May-08	NS	3.3	1.9	2.6	1.3	NS	NS	2
	Nov-08	NS	1.3	1.8	2.2	1.0 U	NS	NS	1.8

Notes:

* Erroneous reading
NS Not Sampled
( ) Number of times sample was diluted

Appendix C
Groundwater Sampling Forms

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 5/14/08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA MidSouth	EVENT: May 2008		
WELL ID: 02-02-DA	LOCATION: SWMU2		
WEATHER CONDITIONS: Cloudy	AMBIENT TEMP: 72°F		
REVIEWED BY:	PERSONNEL: B. Brister, R. Adamson		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 10.14	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1441	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Nitrate, Total Iron, VFA, Microseeps	

MNA FIELD RESULTS

FERROUS IRON	1.39	mg/L	CHLORIDE	55	mg/L	PHOSPHORUS	7.6	mg/L
SULFIDE	0.015	mg/L	ALKALINITY	460	mg/L	AMMONIA-NITROGEN	1.43	mg/L
SULFATE	68	mg/L	CO_2	175	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☒ Pump Description: QED

Time (hh:mm):	1448	1453	1458	1503	1508							
pH (units):	6.52	6.47	6.44	6.43	6.43							
Conductivity (mS/cm):	1.250	1.205	1.157	1.106	1.058							
Turbidity (NTU):	132.1	122.3	78.9	46.7	30.5							
DO (mg/L):	1.39	0.50	0.32	0.31	0.23							
Temperature (C°):	15.69	15.56	15.56	15.52	15.53							
ORP (mV):	-70.0	-67.3	-63.8	-61.8	-59.6							
Volume Purged (gal):	0.40	0.95	1.5	1.9	2.45							
Depth to Water (ft):	10.14	10.14	10.14	10.14	10.14							
LaMotte (NTU)	177	149	106	62.3	46.6			Well Goes Dry While Purging ☐				

SAMPLE DATA

☐ Bailer ☒ Pump Description: QED

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 um)	Remarks
002G02DA14	5/14/08	1513	16	2	MS/MSD this well

Purging/Sampling Device Decon Process:

COMMENTS:

Purge water placed in drum#_____

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ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 05/15/08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid South	EVENT: May 2008		
WELL ID: 02G03DA	LOCATION: SWMU 2		
WEATHER CONDITIONS: Cloudy	AMBIENT TEMP: 67°F		
REVIEWED BY:	PERSONNEL: R. Adamson & B. Bristo		

WELL DIA: 2"	**WELL DEVELOPMENT**	
TOTAL DEPTH from TOC (ft.):	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 12.05'	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	**GROUNDWATER SAMPLING**	
1 VOLUME OF WATER (gal):	START: 1220	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, VFA, Total Iron, Nitrate, Microseeps	

MNA FIELD RESULTS

FERROUS IRON	1.64	mg/L	CHLORIDE	45	mg/L	PHOSPHORUS	3	mg/L
SULFIDE	0.064	mg/L	ALKALINITY	400	mg/L	AMMONIA-NITROGEN	2.34	mg/L
SULFATE	X	mg/L	CO_2	40	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☐ Bailer ☒ Pump Description: QED

Time (hh:mm):	1227	1232	1237	1242	1247	1252						
pH (units):	6.73	6.72	6.72	6.72	6.72	6.72						
Conductivity (mS/cm):	0.655	0.657	0.655	0.657	0.654	0.650						
Turbidity (NTU):	277.3	247.6	180.8	130.3	84.0	57.7						
DO (mg/L):	1.71	1.03	0.88	0.76	0.72	0.63						
Temperature (C°):	12.60	12.62	12.58	12.70	12.59	12.49						
ORP (mV):	-196.0	-195.3	-187.4	-160.9	-158.3	-185.3						
Volume Purged (gal):	0.5	0.85	1.05	1.4	1.65	1.95						
Depth to Water (ft):	12.33	12.35	12.37	12.38	12.40	12.41						
LaMotte (NTU)	286	237	227	151	97.5	72.3		Well Goes Dry While Purging ☐				

SAMPLE DATA

☐ Bailer ☒ Pump Description: QED

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 um)	Remarks
002G03DA14	05/15/08	1258	10	Ø	

Purging/Sampling Device Decon Process:

COMMENTS:

urge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 5/15/08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA-MIDSOUTH	EVENT: May 2008		
WELL ID: 002G24DA	LOCATION: SWMU 2		
WEATHER CONDITIONS: CLOUDY, SCAT. RAIN	AMBIENT TEMP: 80°		
REVIEWED BY:	PERSONNEL: JN, TW, LC		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START: 1025	FINISH:
DEPTH TO WATER from TOC (ft.): 17.28	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: ~~1018~~ ~~1102~~ 1025	FINISH: 1057
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: IRON, MICROSEEPS, VOC, NITRATE, TOC VFA, BACKUP	

MNA FIELD RESULTS

FERROUS IRON	2.45	mg/L	CHLORIDE	35	mg/L	PHOSPHORUS	5	mg/L
SULFIDE	0.020	mg/L	ALKALINITY	340	mg/L	AMMONIA-NITROGEN	3.77	mg/L
SULFATE	Q	mg/L	CO_2	65	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☑ Pump Description: QED PNEUMATIC

Time (hh:mm):	~~1025~~	~~1031~~	1037	1042	1047	1052	1057					
pH (units):	~~6.61~~	~~6.62~~	6.62	6.63	6.62	6.61	6.60					
Conductivity (mS/cm):	~~0.608~~	~~0.605~~	0.607	0.611	0.611	0.614	0.613					
Turbidity (NTU):	~~89.4~~	~~70.1~~	73.7	69.2	50.4	29.3	22.9					
DO (mg/L):	~~1.05~~	~~0.80~~	0.69	0.55	0.47	0.41	0.39					
Temperature (C°):	~~16.48~~	~~16.49~~	16.32	16.37	16.22	16.19	16.14					
ORP (mV):	~~-97.7~~	~~-96.4~~	-97.2	-98.5	-98.9	-98.9	-98.0					
Volume Purged (gal):	~~0.5~~	~~0.6~~	0.9	1.2	1.4	1.7	1.8					
Depth to Water (ft):	~~18.50~~		18.70	18.8	19.3	19.5	19.55					
LAMOTTE (NTU)			55.0	50.3	31.6	25.4	20.3	Well Goes Dry While Purging ☐				

SAMPLE DATA

☐ Bailer ☐ Pump Description:

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 um)	Remarks
002G24DA14	5/15/08	1102			

Purging/Sampling Device Decon Process:

COMMENTS: LOW FLOW NOT EST. WHEN FIRST MEASUREMENTS WERE TAKEN
Microseeps 15 min. start at 11:15

water placed in drum#_____

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ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 5/13/08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA – MIDSOUTH	EVENT: May 2008		
WELL ID: 02G25 DA14	LOCATION: SWMU 2		
WEATHER CONDITIONS: Cloudy	AMBIENT TEMP: 80°		
REVIEWED BY:	PERSONNEL: JN, TW, LC		

WELL DIA: 2"	**WELL DEVELOPMENT**	
TOTAL DEPTH from TOC (ft.):	START: 1450	FINISH:
DEPTH TO WATER from TOC (ft.): 13.79	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	**GROUNDWATER SAMPLING**	
1 VOLUME OF WATER (gal):	START: 1520	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, NITRATE, TOC, IRON, VFA, MICROSEEPS,	

MNA FIELD RESULTS

FERROUS IRON	2.59 (1)	mg/L	CHLORIDE	25	mg/L	PHOSPHORUS	3.3	mg/L
SULFIDE	0.070	mg/L	ALKALINITY	320	mg/L	AMMONIA-NITROGEN	2.08	mg/L
SULFATE	Q	mg/L	CO_2	110	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☐ Bailer ☑ Pump Description: QED PNEUMATIC

Time (hh:mm):	\	1450	1455	1500	1505	1510	1515					
pH (units):	\	6.66	6.65	6.64	6.65	6.66	6.65					
Conductivity (mS/cm):	\	0.503	0.500	0.498	0.498	0.496	0.496					
Turbidity (NTU):		13.5	5.40	7.20	5.4	5.5	3.5					
DO (mg/L):	\	1.84	1.26	1.25	1.14	1.07	1.07					
Temperature (C°):	\	12.54	12.34	12.35	12.28	12.27	12.25					
ORP (mV):	\	-216.2	-188.9	-177.1	-176.8	-176.2	-175.3					
Volume Purged (gal):	\	.7	1.0	1.3	1.6	1.9	2.3					
Depth to Water (ft):	\	14.19	14.19	14.19	14.19	14.19	14.19					
LAMOTTE (NTU)	\	12.0	9.72	12.6	9.87	9.43	7.71	Well Goes Dry While Purging ☐				

SAMPLE DATA

☐ Bailer ☑ Pump Description: SAME

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 um)	Remarks
002G25DA14	5/14/08	1520			

Purging/Sampling Device Decon Process:

COMMENTS:

Purge water placed in drum#_____

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ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 05-14-08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid South	EVENT: May 2008		
WELL ID: 02G26DA	LOCATION: SWMU 2		
WEATHER CONDITIONS: Cloudy	AMBIENT TEMP: 72°F		
REVIEWED BY:	PERSONNEL: B. Bristo & R. Adamson		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 6.81'	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1309	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC only	

MNA FIELD RESULTS

FERROUS IRON	mg/L	CHLORIDE	mg/L	PHOSPHORUS	mg/L
SULFIDE	mg/L	ALKALINITY	mg/L	AMMONIA-NITROGEN	mg/L
SULFATE	mg/L	CO_2	mg/L		mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☒ Pump Description: QED

Time (hh:mm):	1327	1332	1337	1342	1347							
pH (units):	6.31	6.23	6.23	6.24	6.26							
Conductivity (mS/cm):	0.403	0.403	0.403	0.404	0.404							
Turbidity (NTU):	11.5	19.7	12.8	6.5	2.3							
DO (mg/L):	0.01	0.15	0.15	0.04	0.07							
Temperature (C°):	15.73	15.70	15.64	15.68	15.68							
ORP (mV):	-65.4	-57.8	-55.0	-54.3	-54.2							
Volume Purged (gal):	1.95	2.45	3.15	3.80	4.5							
Depth to Water (ft):	8.52	8.64	8.64	8.64	8.64							
Lamotte Turbidity	34.4	37.0	22.1	15.7	13.5							

Well Goes Dry While Purging ☐

SAMPLE DATA

☐ Bailer ☒ Pump Description: QED

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Remarks
002G26DA14	05/14/08	1400	3	Ø	

Purging/Sampling Device Decon Process:

COMMENTS: 1331: Turn pump pressure down

Purge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 05-15-08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid-South	EVENT: May 2008		
WELL ID: 02G28DA	LOCATION: SWMU 2		
WEATHER CONDITIONS: Light Rain	AMBIENT TEMP: 65°F		
REVIEWED BY:	PERSONNEL: R. Adamson & B. Brister		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START: [redacted]	FINISH:
DEPTH TO WATER from TOC (ft.): 12.51'	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1010	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Total Iron, Nitrate, VFAs, M.E.E.	

MNA FIELD RESULTS

FERROUS IRON	1.11	mg/L	CHLORIDE	25	mg/L	PHOSPHORUS	2	mg/L
SULFIDE	0.008	mg/L	ALKALINITY	360	mg/L	AMMONIA-NITROGEN	2.08	mg/L
SULFATE	∅	mg/L	CO_2	115	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☒ Pump Description: QED

Time (hh:mm):	1017	1022	1027	1032	1037	1042	1047	1052	1057			
pH (units):	6.39	6.53	6.59	6.62	6.65	6.66	6.67	6.67	6.69			
Conductivity (mS/cm):	0.542	0.549	0.550	0.552	0.556	0.558	0.557	0.559	0.562			
Turbidity (NTU):	1.7	-1.9	-4.9	-6.7	-9.3	-10.3	-10.5	-10.4	-11.2			
DO (mg/L):	4.21	1.92	1.26	1.10	1.06	1.03	0.96	0.93	0.94			
Temperature (C°):	12.65	12.62	12.57	12.74	12.87	12.90	12.91	13.16	13.41			
ORP (mV):	-93.8	-133.4	-119.1	-117.8	-123.0	-124.2	-126.5	-127.0	-125.5			
Volume Purged (gal):	0.25	0.55	0.9	0.95	1.15	1.30	1.50	1.65	1.80			
Depth to Water (ft):	13.72	14.55	15.22	15.48	15.65	15.74	15.88	15.70	15.57			
LaMotte (NTU)	19.10	12.90	14.60	9.66	8.06	4.97	6.88	4.38	5.82			

Well Dry While Purging ☐

SAMPLE DATA

☐ Bailer ☒ Pump Description: QED

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Remarks
002G28DA14	05-15-08	1105	10	∅	
002G28DA14	05-15-08	1105	3	∅	DUPE

Purging/Sampling Device Decon Process:

COMMENTS: 1048: Turn pump down (pressure) slightly. As a result... low-flow/recovery established.

Purge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 11/13/08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid-South	EVENT: November 2008		
WELL ID: 002G02DA	LOCATION: SWMU 2		
WEATHER CONDITIONS: Cloudy	AMBIENT TEMP:		
REVIEWED BY:	PERSONNEL: RM BB		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START: /	FINISH: /
DEPTH TO WATER from TOC (ft.): 21.81	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1036	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Total Iron, VFA, Microseeps, Nitrate	

MNA FIELD RESULTS

FERROUS IRON	2.94 (1) 5.88	mg/L	CHLORIDE	40	mg/L	PHOSPHORUS	3.3	mg/L
SULFIDE	0	mg/L	ALKALINITY	320	mg/L	AMMONIA-NITROGEN	2.34	mg/L
SULFATE	13	mg/L	CO_2	150	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☐ Bailer ☑ Pump Description: QED / YSI

Time (hh:mm):	1047	1052	1057	1102	1107							
pH (units):	6.62	6.63	6.63	6.59	6.60							
Conductivity (mS/cm):	0.675	0.650	0.624	0.609	0.595							
Turbidity (NTU) LaMotte	90.9	37.8	23.3	16.4	9.62							
DO (mg/L):	1.27	0.45	0.42	0.35	0.33							
Temperature (C°):	16.11	15.75	15.72	15.70	15.72							
ORP (mV):	-88.4	-91.5	-91.9	-91.2	-89.9							
Volume Purged (gal):	1.20	1.75	2.30	3.00	3.60							
Depth to Water (ft):	22.22	22.22	22.22	22.22	22.29							
								Well Goes Dry While Purging ☐				

SAMPLE DATA

☐ Bailer ☐ Pump Description:

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 um)	Remarks
002G02DA15	11-13-08	1112		Ø	

Purging/Sampling Device Decon Process:

COMMENTS: 1045: Connect YSI

Purge water placed in drum# TANK

1.8
1.3
54
18
234

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 11-13-08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid South	EVENT: November 2008		
WELL ID: 02-03-DA	LOCATION: SWMU 2		
WEATHER CONDITIONS: Overcast, Cool	AMBIENT TEMP: 49°F		
REVIEWED BY:	PERSONNEL: R.A. & J.B.		

WELL DIA: 2"	**WELL DEVELOPMENT**	
TOTAL DEPTH from TOC (ft.):	START: /	FINISH: /
DEPTH TO WATER from TOC (ft.): 22.95	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	**GROUNDWATER SAMPLING**	
1 VOLUME OF WATER (gal):	START: 1458	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Total Iron, Nitrate, VFA, M.E.C.	

MNA FIELD RESULTS

FERROUS IRON	2.91 (1)	mg/L	CHLORIDE	45	mg/L	PHOSPHORUS	3.3	mg/L
SULFIDE	0.068	mg/L	ALKALINITY	360	mg/L	AMMONIA-NITROGEN	2.47	mg/L
SULFATE	5	mg/L	CO_2	130	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☒ Pump Description: Bladder

Time (hh:mm):	1512	1517	1522	1527	1532							
pH (units):	6.82	6.80	6.79	6.78	6.77							
Conductivity (mS/cm):	0.623	0.624	0.628	0.629	0.630							
Turbidity (NTU):	114	102.1	79.0	55.2	25.1							
DO (mg/L):	3.12	1.62	1.16	1.11	0.99							
Temperature (C°):	15.79	15.76	15.74	15.73	15.71							
ORP (mV):	-109.6	-111.4	-107.0	-104.8	-106.4							
Volume Purged (gal):	0.95	1.20	1.40	1.60	1.80							
Depth to Water (ft):	23.71	23.71	23.71	23.71	23.71							
								Well Goes Dry While Purging ☐				

SAMPLE DATA

☐ Bailer ☒ Pump Description: Bladder

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 um)	Remarks
00 2G 03DA 15	11-13-08	1540		—	

Purging/Sampling Device Decon Process:

COMMENTS: 220 ml/min Microsep, 15 min runtime

Purge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 11-13-08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid South	EVENT: November 2008		
WELL ID: 02-24-0A	LOCATION: SWMU 2		
WEATHER CONDITIONS: Cool, Overcast	AMBIENT TEMP: 49°F		
REVIEWED BY:	PERSONNEL: R.A. & J.B.		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 25.10	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1040	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Total Iron, Nitrate, VFA, M.E.E.	

MNA FIELD RESULTS

FERROUS IRON	2.67 (1) 5.34	mg/L	CHLORIDE	50	mg/L
SULFIDE	0.105	mg/L	ALKALINITY	340	mg/L
SULFATE	0	mg/L	CO_2	105	mg/L
AMMONIA-NITROGEN	2.73	mg/L	PHOSPHORUS	2	mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☒ Pump Description: Bladder

Time (hh:mm):	1100	1105	1110	1115	1120	1125	1130					
pH (units):	6.72	6.75	6.76	6.76	6.77	6.77	6.77					
Conductivity (mS/cm):	0.569	0.570	0.567	0.560	0.556	0.553	0.554					
Turbidity (NTU):	155	135	121	136	118	108.6	81.4					
DO (mg/L):	4.61	3.34	1.69	1.46	1.35	1.24	1.16					
Temperature (C°):	15.86	15.95	15.94	16.03	16.02	16.08	16.08					
ORP (mV):	-102.5	-104.2	-108.0	-108.6	-108.9	-109.3	-111.5					
Volume Purged (gal):	0.85	0.95	1.05	1.15	1.25	1.35	1.45					
Depth to Water (ft):	26.32	26.32	26.33	26.35	26.36	26.39	26.40					
								Well Goes Dry While Purging ☐				

Sample Data

☐ Bailer ☒ Pump Description: Bladder

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Remarks
002G24DA15	11/13/08	1135	11	—	

COMMENTS: Run Microcreeps @ 220 ml/min, 15min purge

Purge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 11/13/08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA mid-South	EVENT: November 2008		
WELL ID: 002G25DA	LOCATION: SWMU 2		
WEATHER CONDITIONS: Cloudy	AMBIENT TEMP: 53°F		
REVIEWED BY:	PERSONNEL: BB RM		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START: /	FINISH: /
DEPTH TO WATER from TOC (ft.): 25.02	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1214	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Total Iron, Nitrate, VFA, M.E.E., Hydrogen	

MNA FIELD RESULTS

FERROUS IRON	2.19 (1) 4.38 mg/L	CHLORIDE	20 mg/L	PHOSPHORUS	3 mg/L
SULFIDE	0.002 mg/L	ALKALINITY	320 mg/L	AMMONIA-NITROGEN	1.69 mg/L
SULFATE	0 mg/L	CO_2	120 mg/L		mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☑ Pump Description: QED / YSI

Time (hh:mm):	1222	1227	1232	1237	1242							
pH (units):	6.71	6.71	6.71	6.74	6.72							
Conductivity (mS/cm):	0.520	0.520	0.518	0.516	0.517							
Turbidity (NTU) LaMotte	32.2	18.8	14.7	18.3	8.02							
DO (mg/L):	2.53	1.85	1.77	1.63	1.84							
Temperature (C°):	15.64	15.61	15.59	15.63	15.61							
ORP (mV):	-81.5	-84.0	-84.0	-74.9	-76.3							
Volume Purged (gal):	0.95	1.45	2.10	2.70	3.30							
Depth to Water (ft):	25.81	25.74	25.74	25.74	25.74							
								Well Goes Dry While Purging ☐				

SAMPLE DATA

☐ Bailer ☑ Pump Description: QED

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Remarks
002G25DA15	11-13-08	1247	11	Ø	

Purging/Sampling Device Decon Process:

COMMENTS:

Purge water placed in drum# TANK

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 11-13-08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid-South	EVENT: November 2008		
WELL ID: 002G26DA	LOCATION: SWMU-2		
WEATHER CONDITIONS: Cloudy	AMBIENT TEMP:		
REVIEWED BY:	PERSONNEL: R.M. B.B.		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START: /	FINISH: /
DEPTH TO WATER from TOC (ft.): 18.10	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1357	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC only	

MNA FIELD RESULTS

FERROUS IRON	mg/L	CHLORIDE	mg/L
SULFIDE	mg/L	ALKALINITY	mg/L
SULFATE	mg/L	CO_2	mg/L
AMMONIA-NITROGEN	mg/L	PHOSPHORUS	mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☑ Pump Description: QED / YSI

Time (hh:mm):	1405	1410	1415	1420	1425							
pH (units):	6.63	6.59	6.58	6.59	6.59							
Conductivity (mS/cm):	0.384	0.400	0.402	0.401	0.400							
Turbidity (NTU) Lamotte	13.3	21.9	14.6	12.5	5.78							
DO (mg/L):	3.17	2.41	1.88	1.52	1.36							
Temperature (C°):	15.94	15.97	15.96	15.96	15.94							
ORP (mV):	-59.0	-63.5	-64.2	-65.2	-66.6							
Volume Purged (gal):	1.30	1.75	2.20	2.60	3.05							
Depth to Water (ft):	19.49	19.43	19.43	19.43	19.43							
									Well Goes Dry While Purging ☐			

Sample Data

☐ Bailer ☑ Pump Description: QED

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Remarks
002G26DA15	11-13-08	1435	3	Ø	

COMMENTS:

Purge water placed in drum# TANK

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 11-13-08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid South	EVENT: November 2008		
WELL ID: 02-28-DA	LOCATION: SWMU 2		
WEATHER CONDITIONS: Overcast	AMBIENT TEMP: 49 °F		
REVIEWED BY:	PERSONNEL: R.A. & J.B.		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 23.19	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1300	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Total Iron, Nitrate, VFA, M.E.E.	

MNA FIELD RESULTS

FERROUS IRON	2.96 (1)	mg/L	CHLORIDE	20	mg/L	PHOSPHORUS	3 mg/L
SULFIDE	0.016	mg/L	ALKALINITY	340	mg/L	AMMONIA-NITROGEN	2.47 mg/L
SULFATE	1	mg/L	CO_2	155	mg/L		mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☑ Pump Description: Bladder

Time (hh:mm):	1325	1330	1335	1340	1345							
pH (units):	6.83	6.77	6.76	6.76	6.76							
Conductivity (mS/cm):	0.522	0.532	0.540	0.547	0.547							
Turbidity (NTU):	18.8	17.8	12.4	9.84	8.73							
DO (mg/L):	0.98	0.98	0.91	0.84	0.77							
Temperature (C°):	15.87	15.90	15.91	15.91	15.90							
ORP (mV):	-109.7	-108.5	-113.2	-113.9	-114.4							
Volume Purged (gal):	1.65	1.80	1.95	2.15	2.35							
Depth to Water (ft):	28.10	28.13	28.16	28.20	28.25							
								Well Goes Dry While Purging ☐				

SAMPLE DATA

☐ Bailer ☒ Pump Description: Bladder

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 um)	Remarks
002G28DA15	11/13/08	1350	~~14~~ 11	—	
002H28DA15	11/13/08	1350	3	—	

Purging/Sampling Device Decon Process:

COMMENTS: 240 ml/min for Microscopes, 15 min rinsing

Purge water placed in drum#_____