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2009 INTERIM MEASURES PROGRESS REPORT
SWMU 39

NAVAL SUPPORT ACTIVITY MID-SOUTH
MILLINGTON, TENNESSEE

Revision: 1

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July 10, 2009

2009 INTERIM MEASURES PROGRESS REPORT, REVISION: 1
SWMU 39
NAVAL SUPPORT ACTIVITY MID-SOUTH — MILLINGTON, TENNESSEE — July 10, 2009

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LIST OF ACRONYMS

1,2-DCE	1,2-dichloroethylene
DO	dissolved oxygen
IMs	interim measures
mg/L	milligram per liter
MNA	monitored natural attenuation
NSA	Naval Support Activity
O&M	operation and maintenance
ORP	oxidation-reduction potential
SWMU	Solid Waste Management Unit
TCE	trichloroethylene
TOC	total organic carbon
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compound
μg/L	microgram per liter

EXECUTIVE SUMMARY

This report describes and evaluates the 2008/early 2009 interim measures (IMs) for Solid Waste Management Unit (SWMU) 39 at Naval Support Activity (NSA) Mid-South. IMs for this SWMU address chlorinated solvent contamination within the fluvial deposits aquifer beneath the site. These IMs consist of two parts:

- Enhanced bioremediation that is designed to mitigate hazards and threats to human health and the environment from the most contaminated locations within SWMU 39.

- Monitored natural attenuation (MNA) that is being implemented as the long-term remedy for groundwater exhibiting lower concentrations of chlorinated solvents.

As part of the IMs, injection wells were installed at selected locations within the chlorinated solvent plume at SWMU 39 for introduction of a carbon substrate into the aquifer to stimulate the reductive dechlorination of the solvents. Additionally, other groundwater monitoring wells were installed to provide sufficient data to better evaluate the remediation effectiveness. Monthly substrate injections began February 2, 2005, and continue today.

Analytical results from quarterly effectiveness monitoring through February 2009 indicate that the injections of sodium acetate and ammonium phosphate continue to stimulate the reductive dechlorination of trichloroethylene (TCE) and other volatile organic compounds (VOCs). Results from groundwater samples collected from monitoring well 039G22LF, indicates TCE is being converted to cis-1,2-dichloroethylene (cis-1,2-DCE), with cis-1,2-DCE rising to historically high concentrations of 180 micrograms per liter (µg/L) in samples collected from a few wells during the February 2008 sampling event. A similar response is quantified in groundwater samples collected from monitoring wells 039G03LF and 039G04LF, where conversion of TCE also resulted in historically high concentrations of cis-1,2-DCE in the last few sampling events. Trace levels of VC have been detected in monitoring well 039G03LF and monitoring well 039G04LF, which have historically shown VC less than the laboratory method detection limits. The oxidation-reduction potential (ORP), hydrogen, and methane data all indicate the aquifer is anaerobic, likely in the sulfate-reducing to methanogenic range, which is ideal for reductive dechlorination. However, total organic carbon (TOC) concentrations that are indicative of substrate distribution in the aquifer remain low, possibly from a combination of microbial consumption rates and a non-uniform delivery of substrates associated with vertical hydraulic gradients and aquifer heterogeneities.

The 2008 annual progress report previously recommended several field modifications to assess system optimization, including installing additional injection wells, assessing the vertical distribution

of contaminants, and evaluating microbial populations. Given the shifts in chlorinated solvent concentrations observed in the February 2009 data set, these recommendations should be suspended and substrate injections are recommended to continue monthly.

1.0 INTRODUCTION

This is the fifth interim measures (IMs) progress report for Solid Waste Management Unit (SWMU) 39 since the selected remedy was implemented in February 2005 to address trichloroethylene (TCE) contaminated groundwater in the fluvial deposits aquifer. These IMs consist of two parts:

- Enhanced bioremediation that is designed to mitigate hazards and threats to human health and the environment from the most contaminated locations within SWMU 39.

- Monitored natural attenuation (MNA) that is being implemented as the long-term remedy in less contaminated portions of the plume.

The design, construction, and operation and maintenance (O&M) requirements for an enhanced bioremediation system at SWMU 39 are presented in the *Interim Measures Work Plan — SWMU 39* (EnSafe, October 2004)[1].

This annual progress report provides an update of the remedial and monitoring activities for the period from May 2008 through February 2009. Figure 1-1 is an aerial map of the facility and the surrounding area that shows the Naval Support Activity (NSA) Mid-South Northside and Southside base boundaries that were in place before and after property transfer that occurred in January 2000, as well as the location of SWMU 39.

Since February 2, 2005, the substrate-injection wells have been used to inject designed quantities of nutrients (carbon and a nitrogen-based compound) on a monthly basis to stimulate reductive dechlorination of TCE. Eleven monitoring wells have been sampled quarterly for field and laboratory chemical and geochemical analyses since January 2005 to evaluate the effectiveness of the IMs. Figure 1-2 shows the location of the existing monitoring wells and injection wells. The rationale for the location of these wells is provided in a previous IM Progress Report (EnSafe, March 2007). This progress report presents a comprehensive summary of data collected since IMs began and provides interpretations of the data from the four most recent monitoring events — May 2008, August 2008, November 2008, and February 2009.

[1] The Interim Measures Work Plan for SWMU 39 was approved by the U.S. Environmental Protection Agency (USEPA) and Tennessee Department of Environment and Conservation (TDEC) in letters dated November 23, 2004, and December 1, 2004, respectively.

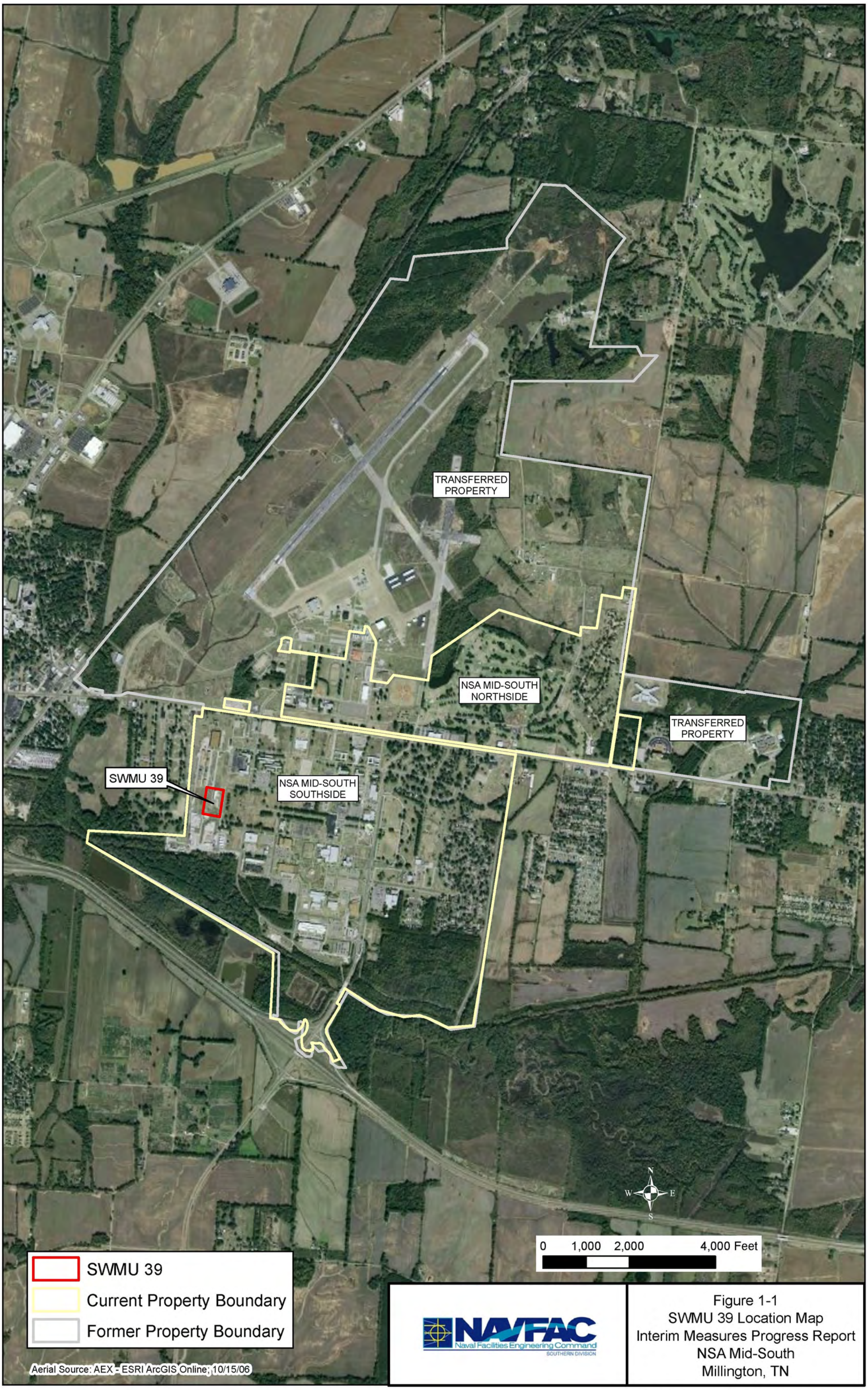

Figure 1-1
SWMU 39 Location Map
Interim Measures Progress Report
NSA Mid-South
Millington, TN

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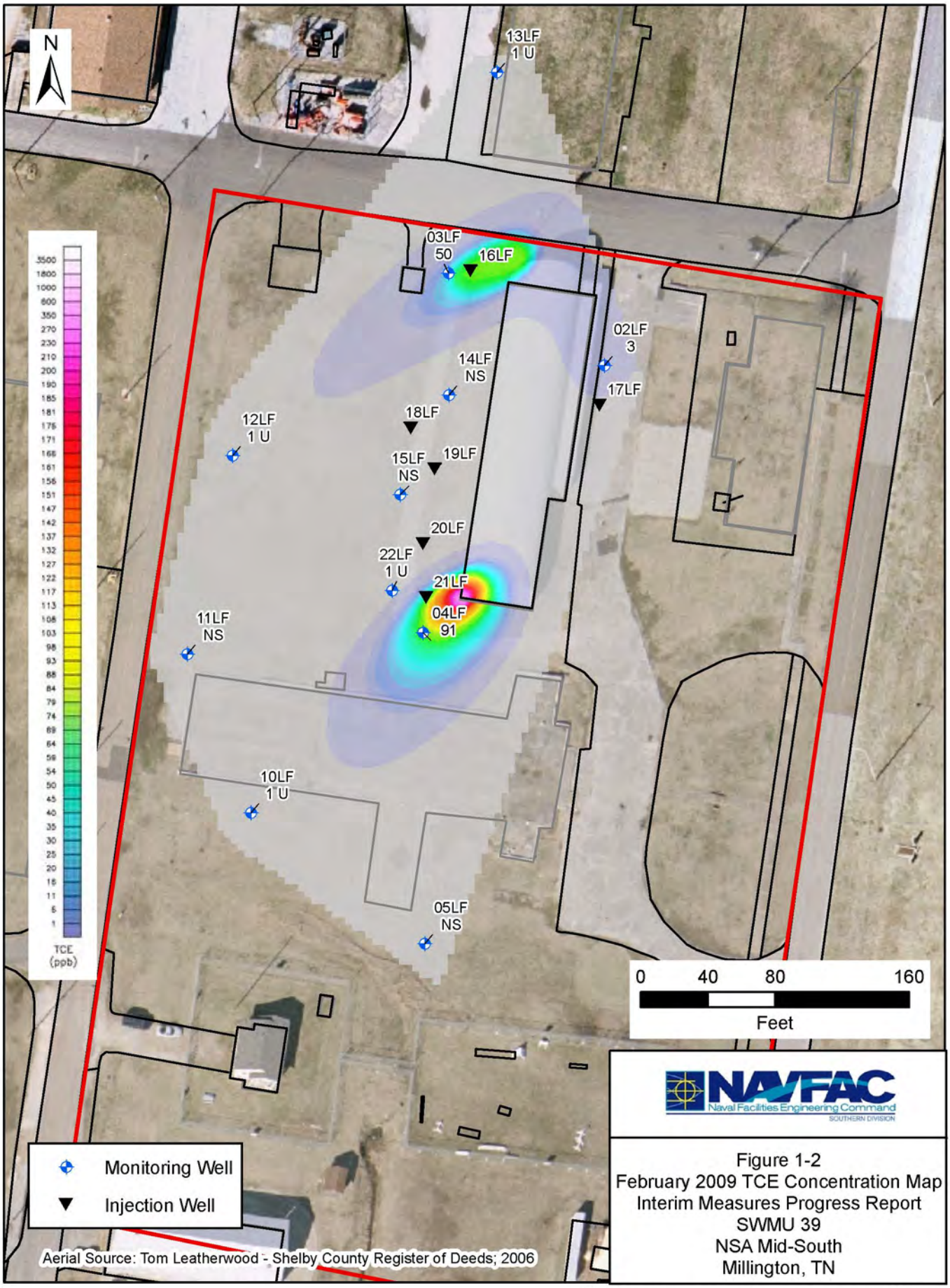

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Figure 1-2
February 2009 TCE Concentration Map
Interim Measures Progress Report
SWMU 39
NSA Mid-South
Millington, TN

6/2/2009 D:\projects\NsaMidSouth\arcgis_projects\swmu_14_39.mxd

Section 2.0 summarizes field activities detailing injection frequencies, volumes, and monitoring. Since start-up, field monitoring data and laboratory analytical data have been collected quarterly. Section 3.0 presents analytical data from the four most recent quarterly sampling events with historical data and an evaluation of the effectiveness of the remedy.

2.0 SUMMARY OF FIELD ACTIVITIES

2.1 Substrate Injection

Sodium acetate is injected into the fluvial deposits aquifer monthly to create the reducing conditions necessary for TCE biodegradation. In addition, designed quantities of ammonium phosphate are injected as a micronutrient for microorganisms. These biostimulants are mixed in powder form and added to the injection wells in a liquid stream. All injections are performed using a mechanical feed system as described in the *Interim Measures Work Plan — SWMU 39* (EnSafe, October 2004). However, the diaphragm pump included in the original design has been bypassed to allow gravity flow injections. This modification was made because the fluvial deposits aquifer has sufficient hydraulic conductivity to accept the designed quantities of substrate without using the more expensive and time-consuming pumping method.

From February 2005 through February 2009, 43 monthly injections have been completed. Each monthly injection event consists of adding 100 gallons of dissolved sodium acetate and ammonium phosphate solution to each injection well. The solution contains 50 pounds of sodium acetate and 0.5 pounds of diammonium phosphate dissolved in 100 gallons of potable water. Mixing of the solution and injection are performed in all injection wells in a single day. As of February 2009, a total of 2,150 pounds of sodium acetate and 21.5 pounds of diammonium phosphate have been injected into each SWMU 39 injection well.

2.2 Quarterly Groundwater Sampling

Groundwater samples were collected from 7 monitoring wells within SWMU 39 in May 2008, August 2008, November 2008, and February 2009 and have been compared with historical data to monitor remediation effectiveness. Samples are analyzed for the parameters/analytes presented in Table 2-1.

Water levels are measured before each quarterly sampling event in all monitoring wells within SWMU 39 to assess the groundwater flow direction in the fluvial deposits aquifer at the site. Groundwater elevations from the February 2009 event were used to generate a potentiometric map of the fluvial deposits aquifer (Figure 2-1). The map indicates that groundwater flow is generally to the southwest which is consistent with the previous flow direction prior to the start of the injections.

Table 2-1
Enhanced In-Situ Bioremediation Quarterly Sampling Parameters/Analytes

Parameter/Analyte	Method
Laboratory	
VOCs	SW8260B
Hydrogen	AM20GAX
Methane, ethane, and ethene	8015MOD
Nitrate	353.3
TOC	SW9060
Field	
Ferrous iron	portable colorimeter
Sulfate and sulfide	portable colorimeter
DO	YSI 55 DO meter calibrated before use per manufacturer's instructions
ORP	Orion 250A ORP meter or equivalent calibrated before use per manufacturer's instructions
pH	pH meter
Temperature	temperature probe
Alkalinity	portable colorimeter
Chloride	portable colorimeter
Phosphorus and ammonia nitrogen	portable colorimeter

Notes:
VOCs — volatile organic compounds
DO — dissolved oxygen
TOC — total organic carbon
ORP — oxidation-reduction potential

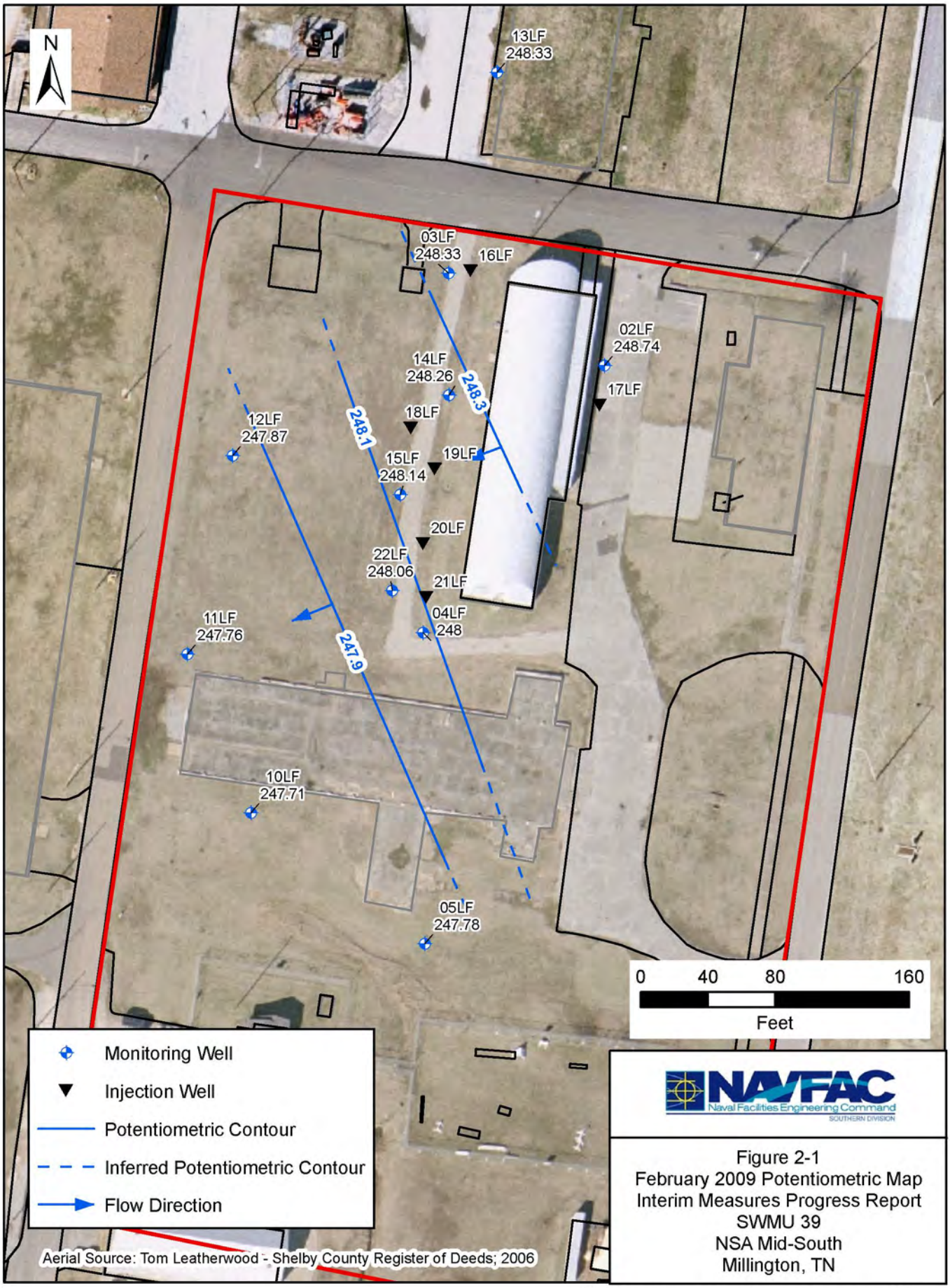

Figure 2-1
February 2009 Potentiometric Map
Interim Measures Progress Report
SWMU 39
NSA Mid-South
Millington, TN

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3.0 RESULTS AND ANALYSIS

Figure 3-1 illustrates spatial contaminant variations throughout the treatment area at the baseline (January 2005) and last sampling event (February 2009). Trend graphs have been prepared for the three key monitoring well locations where TCE contamination has been consistently observed, namely monitoring wells 039G03LF, 039G04LF, and 039G22LF. These graphs have been generated for both VOC and select geochemical data and are presented in Figures 3-2 through 3-4. Only the VOCs of primary concern — TCE, cis-1,2-dichloroethylene (cis-1,2-DCE), and vinyl chloride (VC) — identified in groundwater samples collected from the select monitoring wells within the treatment area are included in these graphs. Appendix A presents complete laboratory analytical results for the IMs monitoring period from May 2008 through February 2009. Appendix B presents summary tables of VOC and geochemical results since IMs began. Groundwater sampling forms containing water quality parameters collected during well purging (pH, DO, ORP, turbidity and temperature) are provided in Appendix C.

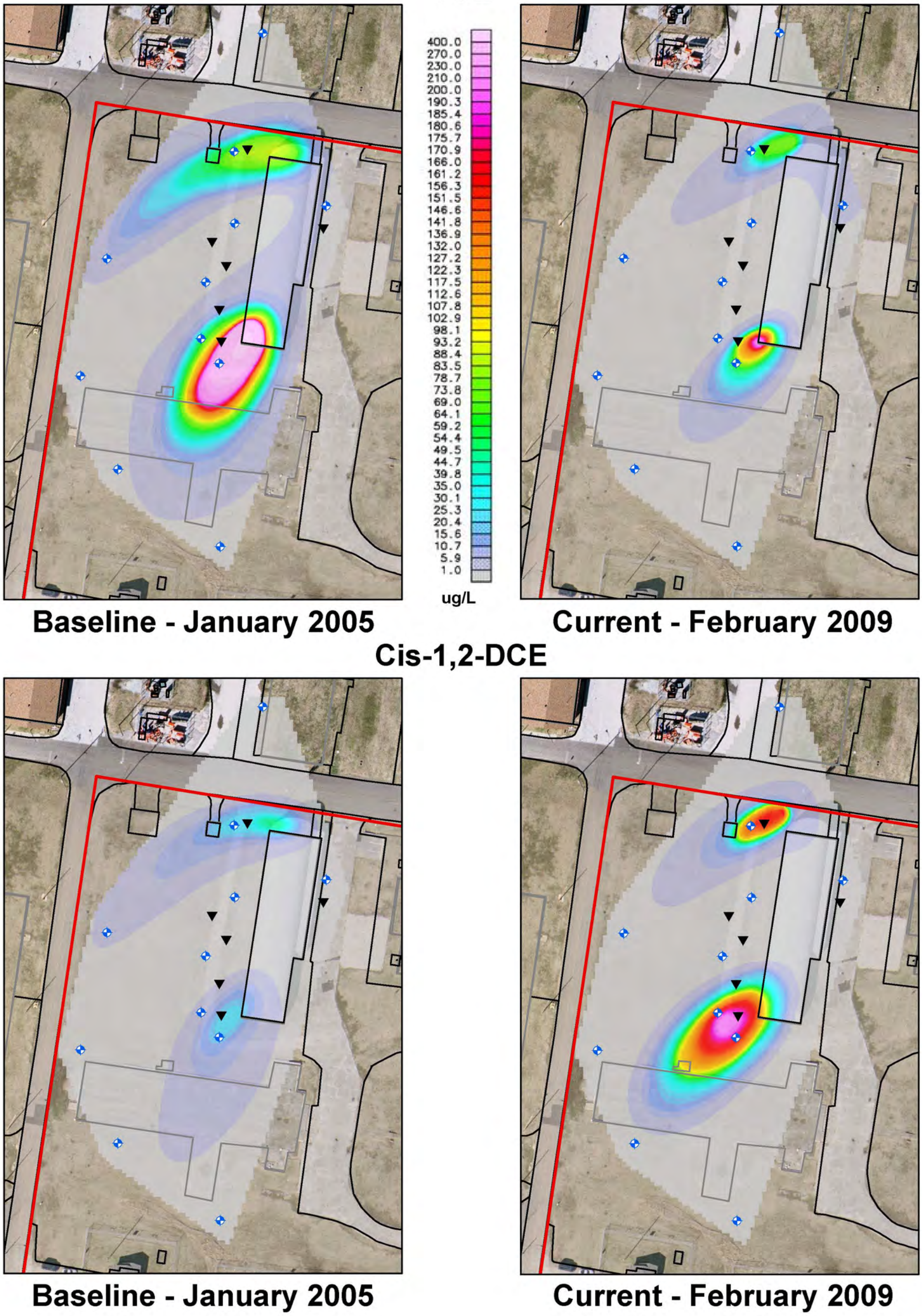
VOC Trends

Groundwater samples collected from several wells indicate the ongoing degradation of TCE.

- In monitoring well 039G03LF, located at the north edge of the site (Figure 3-2), TCE concentrations began to decrease in November 2007 (99 µg/L) and in February 2009 reached a historical low (50 µg/L). Consistent with reductive dechlorination patterns, cis-1,2-DCE concentrations have increased during the same time period, suggesting reductive dechlorination of TCE is occurring in the vicinity of monitoring well 039G03LF. Low concentrations of VC (0.6 µg/L) began to be detected in samples collected from monitoring well 039G03LF for the first time in May 2008, suggesting that cis-1,2 DCE reduction is also occurring.

- In monitoring well 039G04LF, located in the south central part of the site (Figure 3-3), TCE concentrations have decreased from the 140 to 170 µg/L range, quantified in 2007/2008, to the 90 µg/L range during the last three quarters of monitoring. Cis-1,2-DCE concentrations have increased from the 30 to 80 µg/L range in 2007 to more than 130 µg/L in 2008. VC has been detected for the first time in groundwater samples collected from monitoring well 039G04LF, again suggesting that cis-1-2DCE reduction is occurring.

- In monitoring well 039G22LF, located on the northwest edge of the main plume and side gradient relative to monitoring well 039G04LF (Figure 3-4), TCE concentrations have decreased from a maximum of 81 µg/L in January 2005



Aerial Source: Tom Leatherwood - Shelby County Register of Deeds; 2006

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Interim Measures Progress Report
SWMU 39

Figure 3-1
VOC Distribution - Pretreatment vs. Current
(Active Enhanced Phase) Comparison
Interim Measures Progress Report
SWMU 39
NSA Mid-South
Millington, TN

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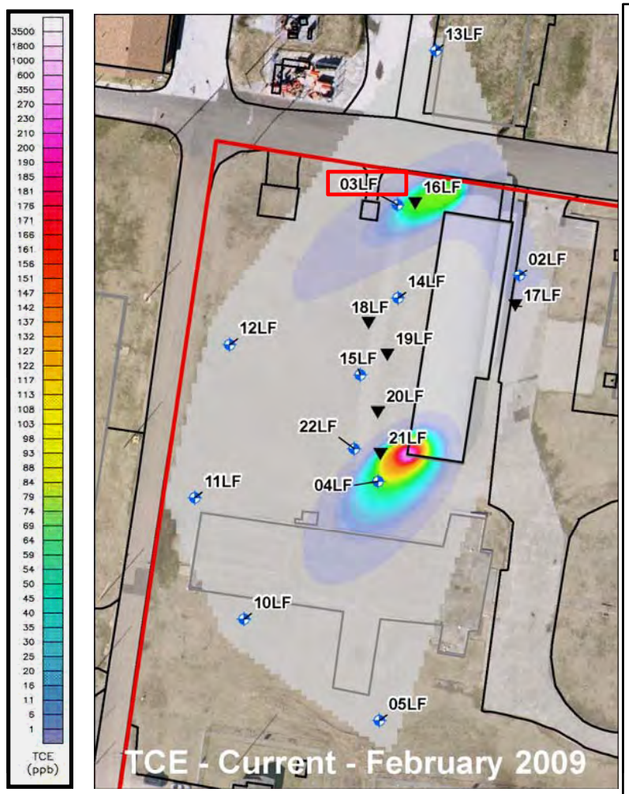


Monitoring Well
Injection Well

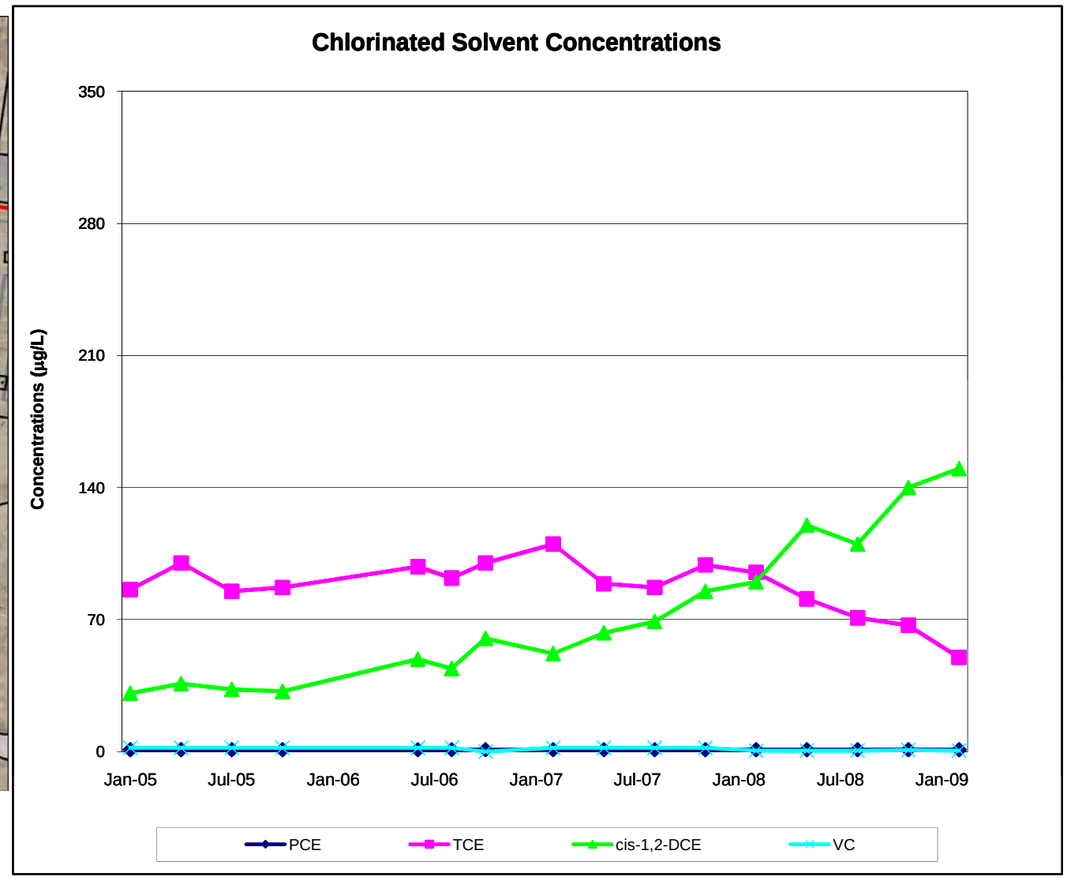
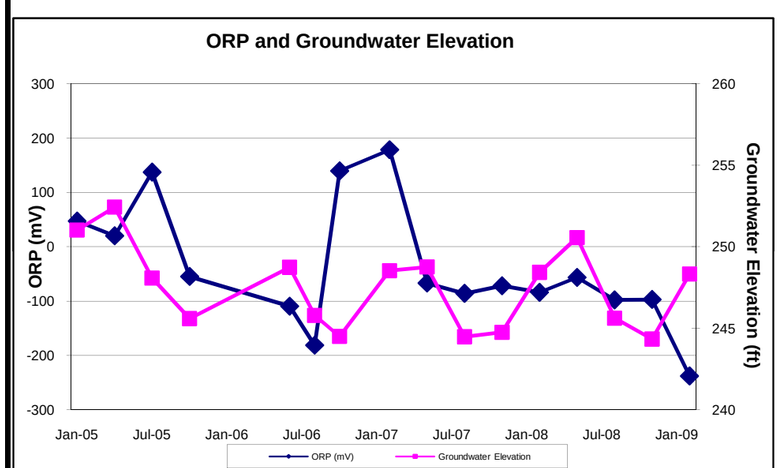


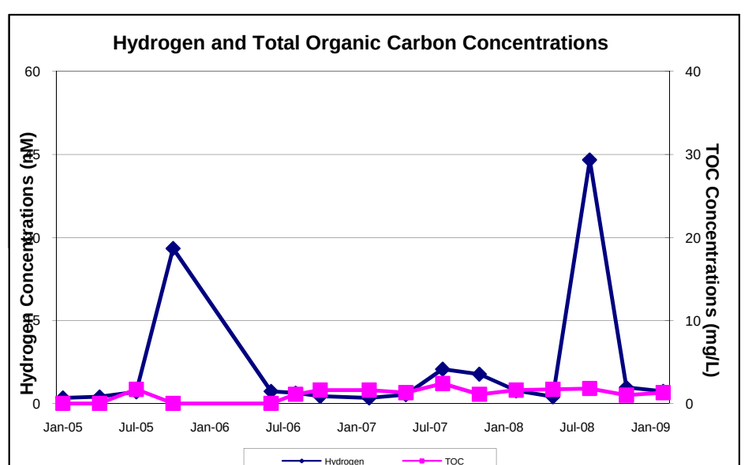
Figure 3-2
Monitoring Well
039G03LF

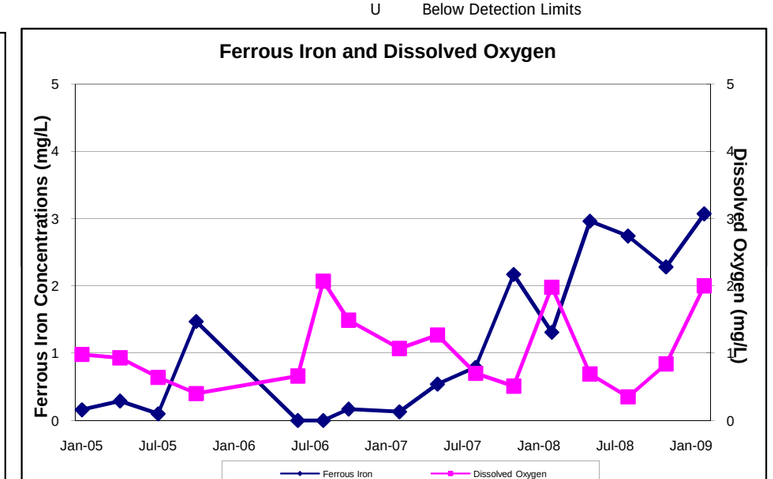
Date	Contaminants (µg/L)			
	PCE	TCE	cis-1,2-DCE	VC
Jan-05	1 U	86	31	2 U
Apr-05	1 U	100	36	2 U
Jul-05	1 U	85	33	2 U
Oct-05	1 U	87	32	2 U
Jun-06	1 U	98	49	2 U
Aug-06	1 U	92	44	2 U
Oct-06	1 U	100	60	2 U
Jan-07	1 U	110	52	2 U
May-07	1 U	89	63	2 U
Aug-07	1 U	87	69	2 U
Nov-07	1 U	99	85	2 U
Feb-08	1 U	95	90 J	2 U
May-08	1 U	81	120	0.6 J
Aug-08	1 U	71	110	0.6 J
Nov-08	1 U	67	140 J	0.6 J
Feb-09	1 U	50	150	0.6 J

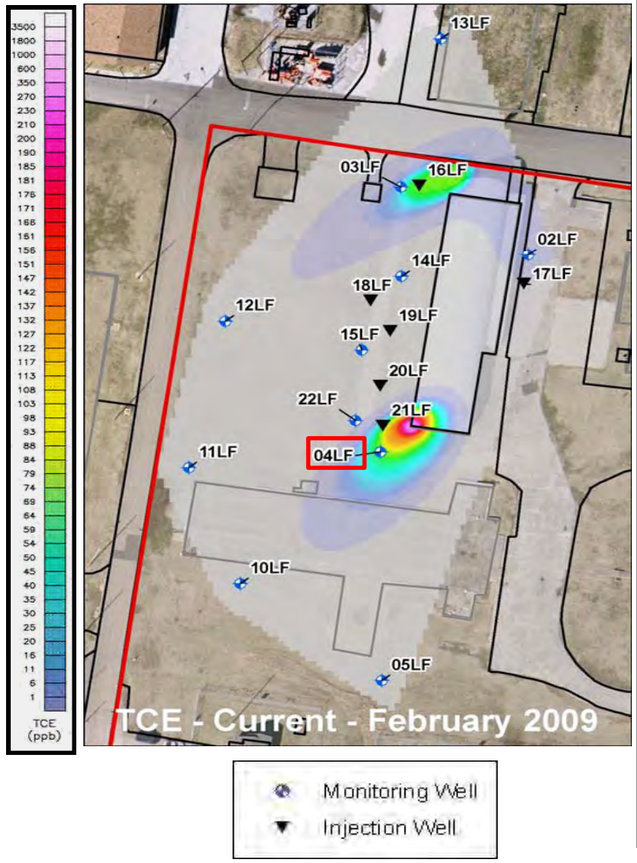
Notes:

D Diluted
J Estimated
U Below Detection Limits









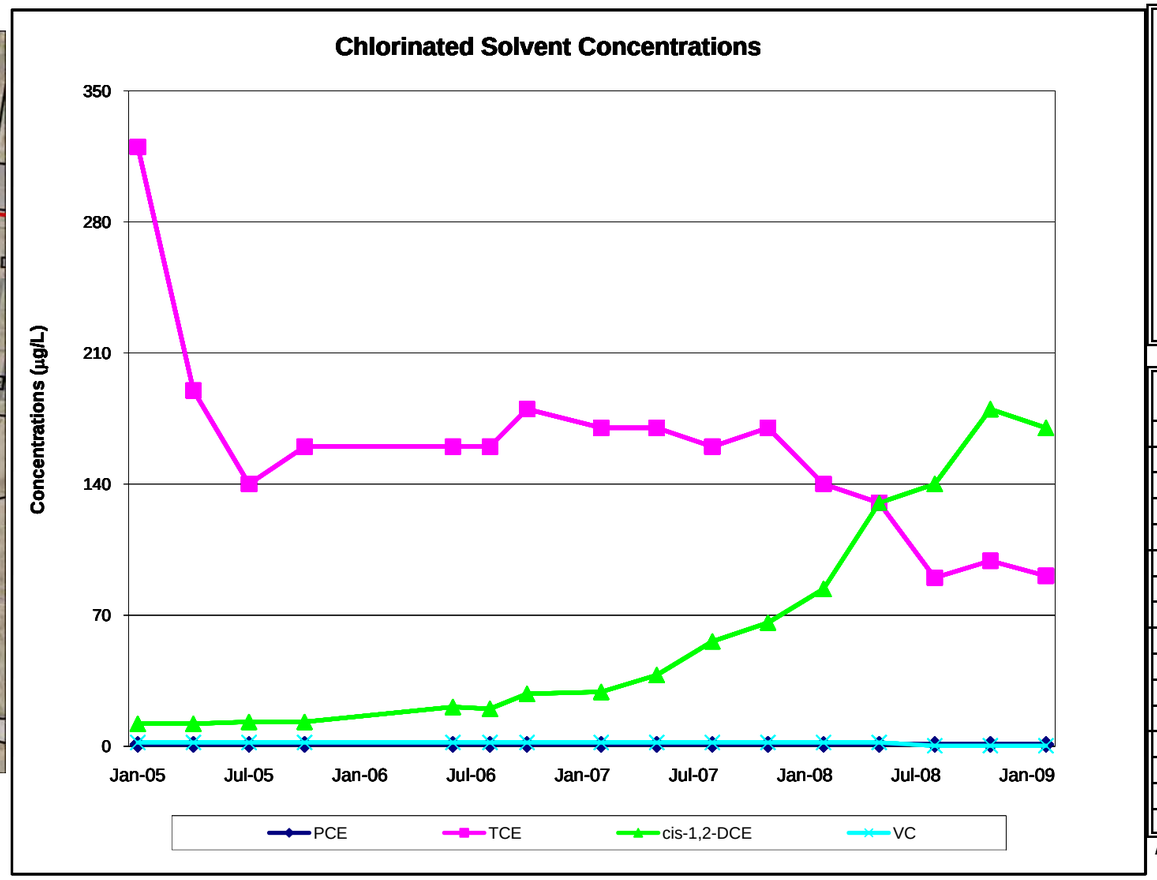
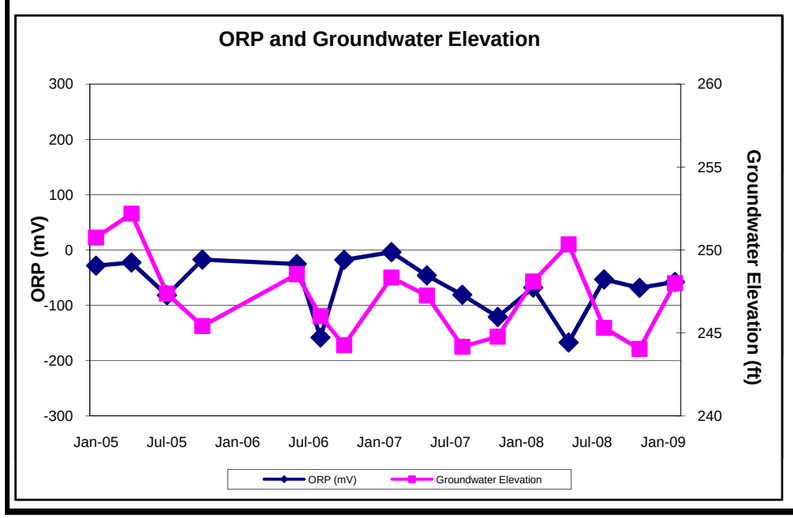
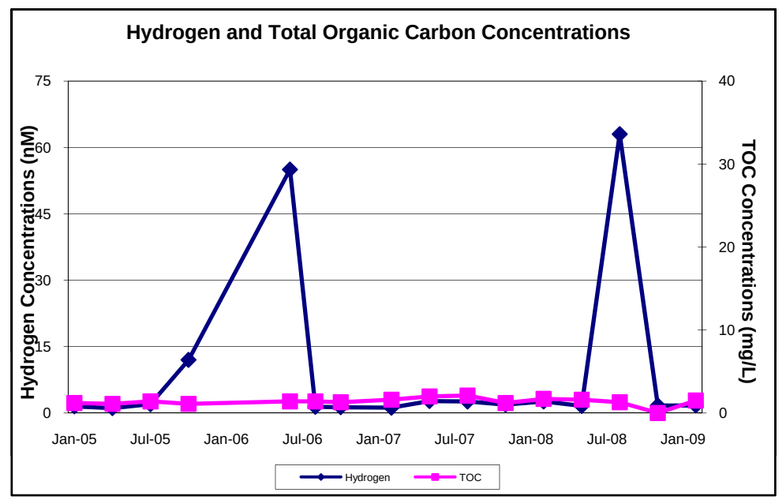


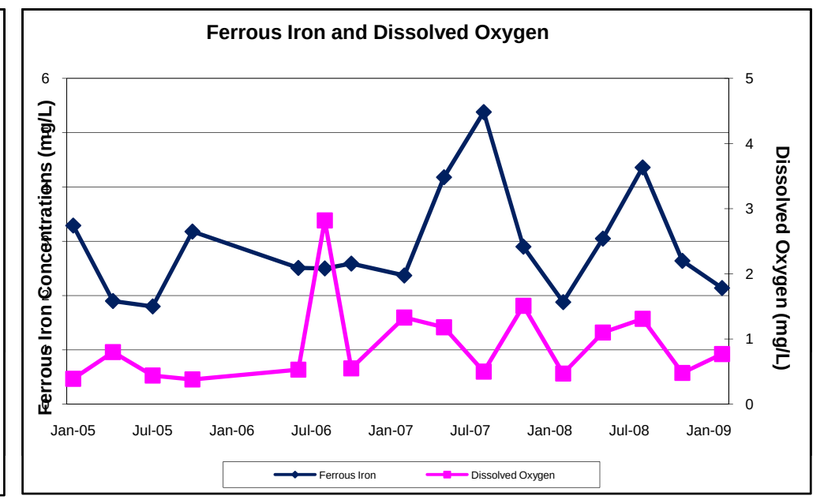
Figure 3-3
Monitoring Well
039G04LF

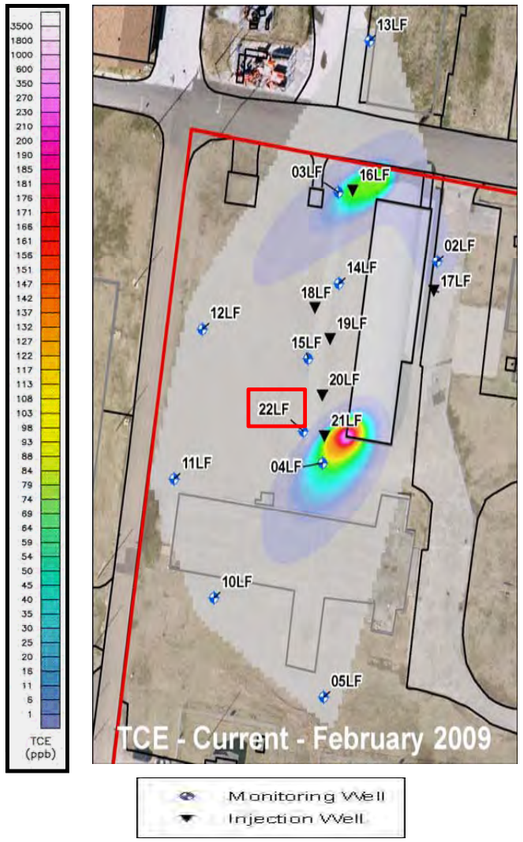
Date	Contaminants (µg/L)			
	PCE	TCE	cis-1,2-DCE	VC
Jan-05	1 U	320 D	12	2 U
Apr-05	1 U	190	12	2 U
Jul-05	1 U	140	13	2 U
Oct-05	1 U	160	13	2 U
Jun-06	1 U	160	21	2 U
Aug-06	1 U	160	20	2 U
Oct-06	1 U	180	28	2 U
Jan-07	1 U	170	29	2 U
May-07	1 U	170	38	2 U
Aug-07	1 U	160	56	2 U
Nov-07	1 U	170	66	2 U
Feb-08	1 U	140	84 J	2 U
May-08	1 U	130	130	2 U
Aug-08	1 U	90	140	0.3 J
Nov-08	1 U	99 J	180 J	0.3 J
Feb-09	1 U	91	170	0.3 J

Notes: U Below Detection Limits
J Estimated D Diluted









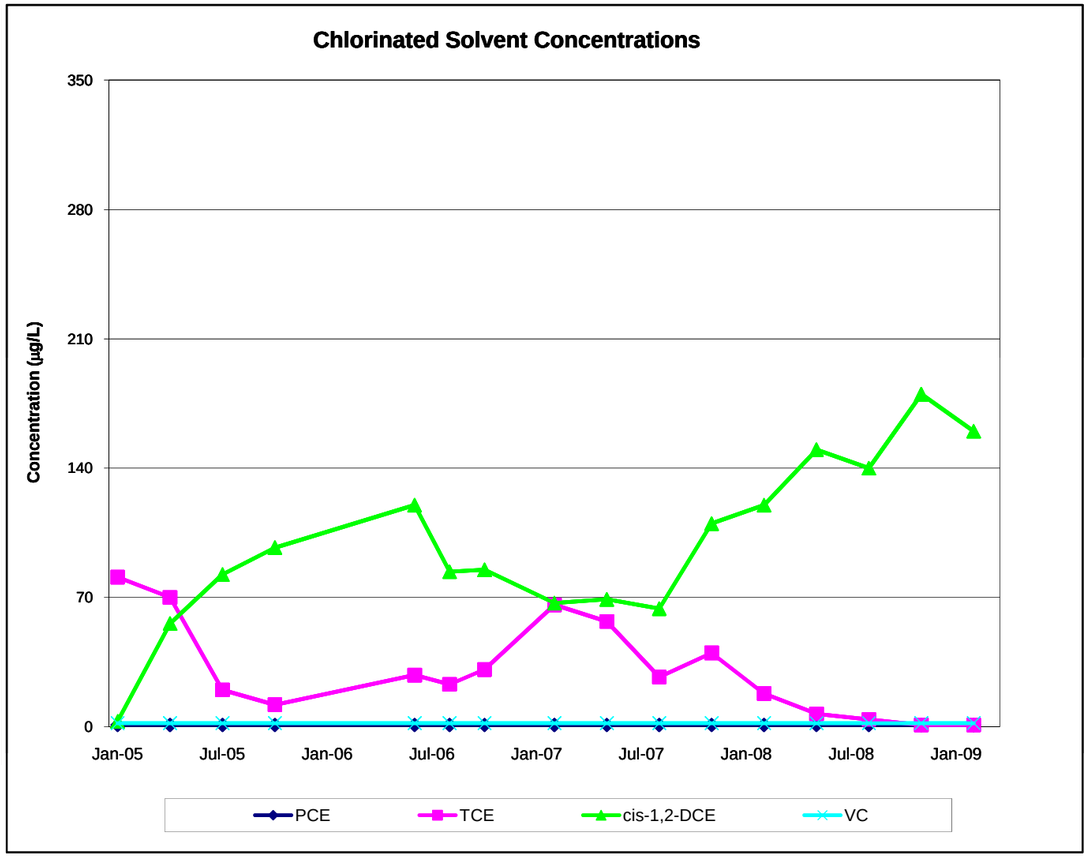
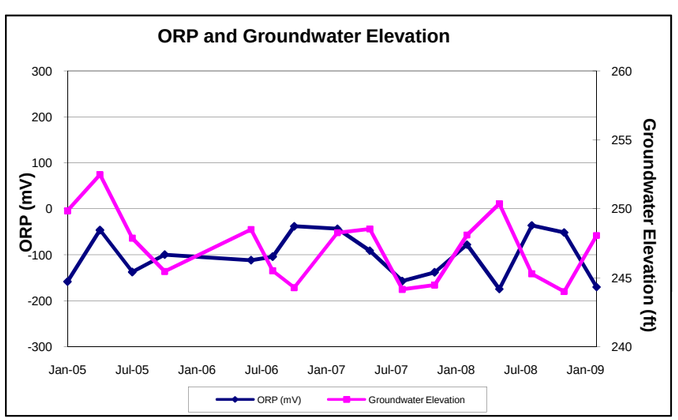


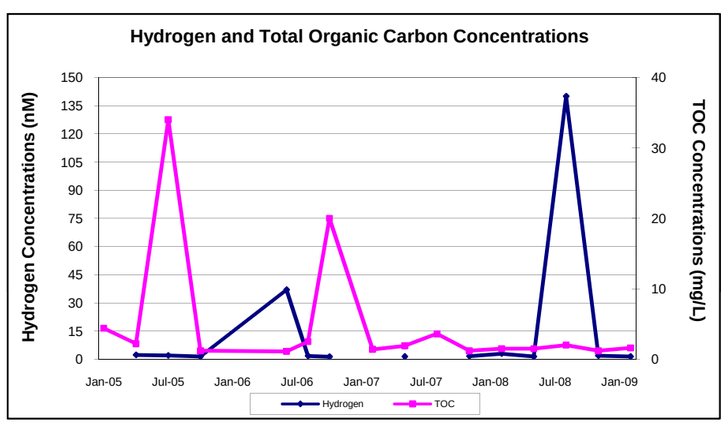
Figure 3-4
Monitoring Well
039G22LF

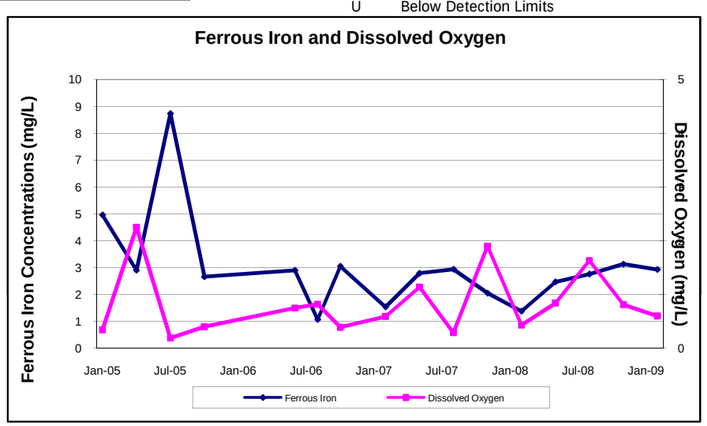
Date	Contaminants (µg/L)			
	PCE	TCE	cis-1,2-DCE	VC
Jan-05	1 U	81	3	2 U
Apr-05	1 U	70	56	2 U
Jul-05	1 U	20	82.5	2 U
Oct-05	1 U	12	97	2 U
Jun-06	1 U	28	120	2 U
Aug-06	1 U	23	84	2 U
Oct-06	1 U	31	85	2 U
Jan-07	1 U	66	67	2 U
May-07	1 U	57	69	2 U
Aug-07	1 U	27	64	2 U
Nov-07	1 U	40	110	2 U
Feb-08	1 U	18	120	2 U
May-08	1 U	7	150	2 U
Aug-08	1 U	4	140	2 U
Nov-08	1 U	1 J	180 J	2 U
Feb-09	1 U	1 U	160	2 U

Notes:

D Diluted
J Estimated
U Below Detection Limits







to less than the method detection limit (1 µg/L) during the November 2008 and February 2009 sampling events. Cis-1,2-DCE concentrations reached an estimated (J) high of 180 µg/L in November 2008, suggesting dechlorination conditions are firmly established in the fluvial deposits aquifer in the vicinity of this well.

All other monitoring wells, some of which are located outside of the treatment area, have either no detections or relatively small detections of chlorinated solvents. Figure 1-2 shows the February 2009 TCE laboratory analytical results for groundwater collected from all sampled monitoring wells which include: 039G02LF, 039G05LF, 039G10LF, 039G11LF, 039G12LF, 039G13LF, 039G14LF, and 039G15LF (see Appendix B, Table B-1). In general, these monitoring wells are upgradient, downgradient, or side-gradient of the treatment area and, therefore, have only low, if any, VOC contamination.

Geochemical Evaluation

Geochemistry at SWMU 39 suggests the aquifer is anaerobic:

- ORP is uniformly negative in groundwater collected from monitoring wells 039G03LF, 039G04LF, and 039G22LF, indicating the aquifer is at least iron- to sulfate-reducing.

- Hydrogen concentrations are elevated above 1 nanomolar (nM), indicating the aquifer is at least sulfate-reducing.

- Methane data for the 2008/2009 period (Appendix B, Table B-2) indicate a slight decrease in overall methane concentrations compared to previous years, and rang from 1,000 to 10,000 µg/L, which is moderately methanogenic.

- Ferrous iron concentrations have nearly doubled during the 2008/2009 period in 039G03LF compared to the previous year, confirming anaerobic conditions.

- Trace ethene concentrations have been detected sporadically in groundwater collected from monitoring wells 039G03LF and 039G22LF (Appendix B, Table B-2), suggesting that VC reduction may occur.[2]

[2] Ethene/ethane concentrations at NSA Mid-South generally are very low, which may be a function of fluvial deposit geochemistry and the volatile/ephemeral nature of the constituents.

Evaluation of the 2007/2008 data suggested that, with methane concentrations consistently elevated above 10,000 µg/L in groundwater collected from monitoring wells 039G04LF and 039G22LF and stable TCE concentrations in all these two wells and monitoring well 039G04LF, methanogenic bacteria are inhibiting reductive dechlorination. However, the reduction in methane concentrations during the 2008/2009 period and the corresponding increase in cis-1,2-DCE generation suggest that microbial consortia equilibrium has shifted toward conditions more favorable to reductive dechlorination.

Analytical data continues to indicate generally low levels of TOC are available in groundwater in the fluvial deposits. Elevated TOC concentrations are considered conducive to reductive dechlorination and are indicative of successful delivery of the injected substrate in the aquifer.[3] The absence of higher carbon residual may be attributable to a combination of microbial consumption rates and a non-uniform distribution of substrates associated with vertical hydraulic gradients and aquifer matrix heterogeneities. Nevertheless, the 2008/2009 groundwater analytical data set indicates reductive dechlorination conditions are ongoing at SWMU 39.

[3] USEPA's 1998 guidance for MNA ranks TOC concentrations greater than 20 mg/L as conducive to reductive dechlorination.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The injection of the sodium acetate and ammonium phosphate solution to the fluvial deposits aquifer has initiated the reductive dechlorination of TCE and other VOCs in the groundwater beneath SWMU 39. Historically, the fluvial deposits aquifer beneath SWMU 39 has been slightly to moderately aerobic and has had generally low concentrations of natural carbon. Therefore, the goal of the enhanced bioremediation system was to use the carbon and nutrients added to SWMU 39 injection wells to convert conditions in the aquifer from predominantly aerobic to reducing. The most noticeable effects can be seen in the groundwater associated with monitoring wells 039G03LF, 039G04LF, and 039G22LF, where reducing conditions have been confirmed via changes in geochemistry and contaminant/daughter-product concentrations. As a result, TCE dechlorination is occurring which results in TCE mass reductions and increases in cis-1,2-DCE concentrations. Continued monthly injections of carbon substrate are recommended until TCE concentrations are reduced beneath site remedial goals, at which point the site remedy should shift to monitoring only.

5.0 REFERENCES

EnSafe Inc. (1999). *AOC A — Northside Fluvial Groundwater A-A Sequential Remediation Treatability Study Work Plan,* Revision 1*. Naval Support Activity Mid-South.* Memphis, Tennessee.

— (2000, September 15). *RFI Report — Assembly F*, Revision 1. Memphis, Tennessee.

— (2001, December 7). *Corrective Measures Study Work Plan, Naval Support Activity Mid-South, SWMU 39,* Revision 2. Memphis, Tennessee.

— (2002, May 17). *AOC A Anaerobic-Aerobic Sequential Bioremediation Pilot Study Report*. Memphis, Tennessee.

— (2003, September 26). *Corrective Measures Study, Naval Support Activity Mid-South, SWMU 39,* Revision 2. Memphis, Tennessee.

— (2004, October 12). *Interim Measures Work Plan, NSA Mid-South, SWMU 39*. Memphis, Tennessee.

— (2005, December 9). *Interim Measures Progress Report, NSA Mid-South, SWMU 39*. Memphis, Tennessee.

— (2007, March 30). *Interim Measures Progress Report, NSA Mid-South, SWMU 39*. Memphis, Tennessee.

U.S. Environmental Protection Agency. (1994). *RCRA Corrective Action Interim Measures Guide* (Interim Final), OSWER Directive 9902.4, Office of Waste Programs Enforcement, Office of Solid Waste, June 1988.

Appendix A
Analytical Results

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 12
Lab Proj #: P0808324
Report Date: 09/05/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Laboratory Results

Total pages in data package: 94

Lab Sample #	Client Sample ID
P0808324-01	039G10LF20
P0808324-02	039G03LF13
P0808324-03	039G12LF21
P0808324-04	039G13LF20
P0808324-05	039G04LF20
P0808324-06	039G02LF13
P0808324-07	039G22LF13
P0808324-08	014G02LS23
P0808324-09	014G14LS13

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:*** 9-5-08

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:

220 William Pitt Way • Pittsburgh, PA 15238 • Tel 412-826-5245 • Fax 412-826-3433
website www.microseeps.com email info@microseeps.com

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

Page: Page 2 of 12
Lab Proj #: P0808324
Report Date: 09/05/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G10LF20	Vapor	P0808324-01	26 Aug. 08 14:00	28 Aug. 08 9:51

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.004	0.010	ug/L	AM20GAX	9/3/08	sl
N Ethene		0.026	0.010	ug/L	AM20GAX	9/3/08	sl
N Hydrogen		470.000	12.000	nM	AM20GAX	9/3/08	sl
N Methane		45.000	0.015	ug/L	AM20GAX	9/3/08	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

Page: Page 3 of 12
Lab Proj #: P0808324
Report Date: 09/05/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G03LF13	Vapor	P0808324-02	26 Aug. 08 13:54	28 Aug. 08 9:51

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	9/3/08	sl
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	9/3/08	sl
N Hydrogen		44.000	0.600	nM	AM20GAX	9/3/08	sl
N Methane		4700.000	0.015	ug/L	AM20GAX	9/3/08	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

Page: Page 4 of 12
Lab Proj #: P0808324
Report Date: 09/05/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G12LF21	Vapor	P0808324-03	26 Aug. 08 12:10	28 Aug. 08 9:51

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.024	0.010	ug/L	AM20GAX	9/3/08	sl
N Ethene		0.026	0.010	ug/L	AM20GAX	9/3/08	sl
N Hydrogen		32.000	0.600	nM	AM20GAX	9/3/08	sl
N Methane		300.000	0.015	ug/L	AM20GAX	9/3/08	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

Page: Page 5 of 12
Lab Proj #: P0808324
Report Date: 09/05/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G13LF20	Vapor	P0808324-04	26 Aug. 08 10:33	28 Aug. 08 9:51

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.004	0.010	ug/L	AM20GAX	9/3/08	sl
N Ethene		0.023	0.010	ug/L	AM20GAX	9/3/08	sl
N Hydrogen		12.000	0.600	nM	AM20GAX	9/3/08	sl
N Methane		0.260	0.015	ug/L	AM20GAX	9/3/08	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

Page: Page 6 of 12
Lab Proj #: P0808324
Report Date: 09/05/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G04LF20	Vapor	P0808324-05	26 Aug. 08 15:30	28 Aug. 08 9:51

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	9/3/08	sl
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	9/3/08	sl
N Hydrogen		63.000	0.600	nM	AM20GAX	9/3/08	sl
N Methane		13000.000	0.015	ug/L	AM20GAX	9/3/08	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

Page: Page 7 of 12
Lab Proj #: P0808324
Report Date: 09/05/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G02LF13	Vapor	P0808324-06	26 Aug. 08 11:35	28 Aug. 08 9:51

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	9/3/08	sl
N Ethene	J	0.010	0.010	ug/L	AM20GAX	9/3/08	sl
N Hydrogen		84.000	0.600	nM	AM20GAX	9/3/08	sl
N Methane		2600.000	0.015	ug/L	AM20GAX	9/3/08	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

Page: Page 8 of 12
Lab Proj #: P0808324
Report Date: 09/05/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G22LF13	Vapor	P0808324-07	26 Aug. 08 15:40	28 Aug. 08 9:51

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	9/3/08	sl
N Ethene		0.023	0.010	ug/L	AM20GAX	9/3/08	sl
N Hydrogen		140.000	1.200	nM	AM20GAX	9/3/08	sl
N Methane		4800.000	0.015	ug/L	AM20GAX	9/3/08	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

Page: Page 9 of 12
Lab Proj #: P0808324
Report Date: 09/05/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
014G02LS23	Vapor	P0808324-08	26 Aug. 08 13:25	28 Aug. 08 9:51

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.009	0.010	ug/L	AM20GAX	9/3/08	sl
N Ethene		0.280	0.010	ug/L	AM20GAX	9/3/08	sl
N Hydrogen		42.000	0.600	nM	AM20GAX	9/3/08	sl
N Methane		200.000	0.015	ug/L	AM20GAX	9/3/08	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

Page: Page 10 of 12
Lab Proj #: P0808324
Report Date: 09/05/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
014G14LS13	Vapor	P0808324-09	26 Aug. 08 13:00	28 Aug. 08 9:51

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.008	0.010	ug/L	AM20GAX	9/3/08	sl
N Ethene		0.044	0.010	ug/L	AM20GAX	9/3/08	sl
N Hydrogen		170.000	6.000	nM	AM20GAX	9/3/08	sl
N Methane		19.000	0.015	ug/L	AM20GAX	9/3/08	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
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Page: Page 11 of 12
Lab Proj #: P0808324
Report Date: 09/05/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

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

M080903009-MB

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

M080903009-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hydrogen	53.000	nM	48.91	108.00	75 - 125

M080903009-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Hydrogen	53.000	nM	48.91	108.00	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
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Page: Page 12 of 12
Lab Proj #: P0808324
Report Date: 09/05/08
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

M080903010-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

M080903010-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

M080903010-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. # P0808324

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. # 1 of 1

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

Company : Spectra Tech

Co. Address : 132 Jefferson court

Phone # : 1865-483-7210 Fax # :

Proj. Manager : Paul Gentry

Proj. Name/Number :

Sampler's signature : Travis Watson

Cooler Temp.

Results to :

Invoice to :

Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# Bottles	Parameters Requested: (AIR UIAL) methane ethane	(water UIAL) methane ethane ethene	Remarks :
039610LF20		1	1		8-26-08	1400	2	1	1	
039603LF13		1	1		8-26-08	1354	2	1	1	
039612LF21		1	1		8-26-08	1210	2	1	1	
039613LF20		1	1		8-26-08	1033	2	1	1	
039604LF20		1	1		8-26-08	1530	2	1	1	
039602LF13		1	1		8-26-08	1135	2	1	1	
039622LF13		1	1		8-26-08	1540	2	1	1	
014602LS23		1	1		8-26-08	1325	2	1	1	
014614LS13		1	1		8-26-08	1300	2	1	1	

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Travis Watson						8/26	
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

P0808324

Microseeps Project Number: _____ P0808324

Date: _____ Time of Receipt: _____ Receiver: _____

Client: _____

REASON FOR NON-CONFORMANCE:

ACTION TAKEN:

Client name: Paul Gentey Date: 8/27 Time: 12:23

add hydrogen to "analysis requested"

project is NAS Midsouth

Customer Service Initials: _____ Date: _____

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 12
Lab Proj #: P0902241
Report Date: 03/04/09
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Laboratory Results

Total pages in data package: 93

Lab Sample #	Client Sample ID
P0902241-01	014G14LS15
P0902241-02	014G02LS25
P0902241-03	039G02LF15
P0902241-04	039G13LF22
P0902241-05	039G12LF23
P0902241-06	039G10LF22
P0902241-07	039G03LF15
P0902241-08	039G04LF22
P0902241-09	039G22LF15

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 (RMW) ***Date:*** 3/4/09

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

Page: Page 2 of 12
Lab Proj #: P0902241
Report Date: 03/04/09
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
014G14LS15	Vapor	P0902241-01	17 Feb 09 12:37	24 Feb 09 12:49

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.002	0.010	ug/L	AM20GAX	3/2/09	sl
N Ethene	J	0.007	0.010	ug/L	AM20GAX	3/2/09	sl
N Hydrogen		1.400	0.600	nM	AM20GAX	3/2/09	sl
N Methane		25.000	0.015	ug/L	AM20GAX	3/2/09	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

Page: Page 3 of 12
Lab Proj #: P0902241
Report Date: 03/04/09
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
014G02LS25	Vapor	P0902241-02	17 Feb. 09 13:20	24 Feb. 09 12:49

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	3/2/09	sl
N Ethene	J	0.008	0.010	ug/L	AM20GAX	3/2/09	sl
N Hydrogen		5.200	0.600	nM	AM20GAX	3/2/09	sl
N Methane		85.000	0.015	ug/L	AM20GAX	3/2/09	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

Page: Page 4 of 12
Lab Proj #: P0902241
Report Date: 03/04/09
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G02LF15	Vapor	P0902241-03	18 Feb 09 10:15	24 Feb 09 12:49

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	3/2/09	sl
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	3/2/09	sl
N Hydrogen		1.300	0.600	nM	AM20GAX	3/2/09	sl
N Methane		1200.000	0.015	ug/L	AM20GAX	3/2/09	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

Page: Page 5 of 12
Lab Proj #: P0902241
Report Date: 03/04/09
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G13LF22	Vapor	P0902241-04	18 Feb. 09 10:25	24 Feb. 09 12:49

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	3/2/09	sl
N Ethene		0.012	0.010	ug/L	AM20GAX	3/2/09	sl
N Hydrogen		5.600	0.600	nM	AM20GAX	3/2/09	sl
N Methane		1.900	0.015	ug/L	AM20GAX	3/2/09	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
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Page: Page 6 of 12
Lab Proj #: P0902241
Report Date: 03/04/09
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G12LF23	Vapor	P0902241-05	18 Feb 09 12:25	24 Feb 09 12:49

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0 01	0.010	ug/L	AM20GAX	3/2/09	sl
N Ethene		0 011	0.010	ug/L	AM20GAX	3/2/09	sl
N Hydrogen		2.100	0.600	nM	AM20GAX	3/2/09	sl
N Methane		16 000	0.015	ug/L	AM20GAX	3/2/09	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
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Page: Page 7 of 12
Lab Proj #: P0902241
Report Date: 03/04/09
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G10LF22	Vapor	P0902241-06	18 Feb 09 13:50	24 Feb 09 12:49

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.002	0.010	ug/L	AM20GAX	3/2/09	sl
N Ethene		0.013	0.010	ug/L	AM20GAX	3/2/09	sl
N Hydrogen		2.500	0.600	nM	AM20GAX	3/2/09	sl
N Methane		73.000	0.015	ug/L	AM20GAX	3/2/09	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

Page: Page 8 of 12
Lab Proj #: P0902241
Report Date: 03/04/09
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G03LF15	Vapor	P0902241-07	18 Feb 09 14:25	24 Feb 09 12:49

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	3/2/09	sl
N Ethene	J	0.006	0.010	ug/L	AM20GAX	3/2/09	sl
N Hydrogen		2.200	0.600	nM	AM20GAX	3/2/09	sl
N Methane		2400.000	0.015	ug/L	AM20GAX	3/2/09	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

Page: Page 9 of 12
Lab Proj #: P0902241
Report Date: 03/04/09
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G04LF22	Vapor	P0902241-08	19 Feb. 09 9:45	24 Feb. 09 12:49

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	3/2/09	sl
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	3/2/09	sl
N Hydrogen		1.700	0.600	nM	AM20GAX	3/2/09	sl
N Methane		7700.000	0.015	ug/L	AM20GAX	3/2/09	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

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Lab Proj #: P0902241
Report Date: 03/04/09
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G22LF15	Vapor	P0902241-09	19 Feb 09 9:55	24 Feb 09 12:49

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	3/2/09	sl
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	3/2/09	sl
N Hydrogen		1.400	0.600	nM	AM20GAX	3/2/09	sl
N Methane		8700.000	0.015	ug/L	AM20GAX	3/2/09	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

Page: Page 11 of 12
Lab Proj #: P0902241
Report Date: 03/04/09
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

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

M090302019-MB

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

M090302019-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hydrogen	53.000	nM	48.91	108.00	75 - 125

M090302019-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Hydrogen	53.000	nM	48.91	108.00	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
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Page: Page 12 of 12
Lab Proj #: P0902241
Report Date: 03/04/09
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

M090302020-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

M090302020-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Ethane	14.000	ug/L	13.54	103.00	75 - 125
Ethene	33.000	ug/L	32.44	102.00	75 - 125
Methane	15.000	ug/L	15.41	97.00	75 - 125

M090302020-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	34.000	ug/L	32.44	105.00	75 - 125	2.99	0 - 20
Methane	15.000	ug/L	15.41	97.00	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. # P0902241

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. #

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 #: 865-483-7240 Fax #: 865-483-7262
Proj. Manager: Paul Gentry
Proj. Name/Number:
Sampler's signature: Ronnie Moody
Cooler Temp.

Results to:
Invoice to:

044GB	Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# Containers	Dis Hydrogen MEE	MEE (water backup)	Remarks:
1	Ø14G14LS15	GW	1	1		2/17/09	1237	2	1	1	
2	Ø14GØ2LS25	GW	1	1		2/17/09	1320	2	1	1	
3	Ø39GØ2LF15	GW	1	1		2/18/09	1015	2	1	1	
4	Ø39G13LF22	GW	1	1		2/18/09	1025	2	1	1	
5	Ø39G12LF23	GW	1	1		2/18/09	1225	2	1	1	
6	Ø39G1ØLF22	GW	1	1		2/18/09	1350	2	1	1	
7	Ø39GØ3LF15	GW	1	1		2/18/09	1425	2	1	1	
8	Ø39GØ4LF22	GW	1	1		2/19/09	0945	2	1	1	
9	Ø39G22LF15	GW	1	1		2/19/09	0955	2	1	1	

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Ronnie Moody	Spectra Tech, Inc.	2/19/09	1430	Poonam Jhuth	MI	2/20/09	1010
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Poonam Jhuth	MI	2/23/09	1600			2/24	1000
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

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

P0902241

Microseeps Lab. Proj. # _____

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. # _____

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

Company : Poonam Sheth
Co. Address : Microbial Insights, Inc.
Phone # : 2340 Stock Creek Blvd.
Fax # :
Proj. Manager : Rockford, TN 37853
Proj. Name/Number : 044GB
Sampler's signature :

Results to : Poonam Sheth

Invoice to : ~~Poonam Sheth~~ H/P

Cooler Temp.

Sample ID	Sample Description	Sample Type: Water	Vapor	Solid	Date	Time	# Bottles	MEE	Remarks
044GB1		X			2/19		1	X	Please see the dissolved hydrogen vials and included COC.
044GB2		X					1	X	
044GB3		X					1	X	
044GB4		X					1	X	
044GB5		X					1	X	
044GB6		X					1	X	
044GB7		X					1	X	
044GB8		X					1	X	
044GB9		X					1	X	

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Poonam Sheth	MI	2/23/09	1600				
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

P0902241

Dissolved Gas Data

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.

220 William Pitt Way • Pittsburgh, PA 15238 • Tel 412-826-5245 • Fax 412-826-3433
website www.microseeps.com email info@microseeps.com

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

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

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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

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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
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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

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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

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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
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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
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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
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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
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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
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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

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: 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
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 (Air Vial) Ethane Methane, Ethene	Filt. ☐Y ☐N (Gas 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
	044FE													
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)
		[signature]	[signature]	5/17/08 10:50AM	
Relinquished By: (Signature)	Date / Time	Received By: (Signature) 18:18	Relinquished By: (Signature)	Date / Time	Received By: (Signature) [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: 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	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y ☐N (AZR Vial methanol preserved)	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								
		/												
		/												
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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

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

microseeps
from insight comes solutions

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

Lab Proj #: P0811171
Report Date: 11/24/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Laboratory Results

Total pages in data package: 161

Lab Sample #	Client Sample ID
P0811171-01	014G14LS14
P0811171-02	014G02LS24
P0811171-03	039G02LF14
P0811171-04	039G13LF21
P0811171-05	039G12LF22
P0811171-06	039G10LF21
P0811171-07	039G22LF14
P0811171-08	039G03LF14
P0811171-09	039G04LF21

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 #: P0811171
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
014G14LS14	Vapor	P0811171-01	10 Nov. 08 14:00	13 Nov. 08 13:15

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.015	0.010	ug/L	AM20GAX	11/21/08	sl
N Ethene		0.029	0.010	ug/L	AM20GAX	11/21/08	sl
N Hydrogen		16.000	0.600	nM	AM20GAX	11/21/08	sl
N Methane		80.000	0.015	ug/L	AM20GAX	11/21/08	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 #: P0811171
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
014G02LS24	Water	P0811171-02	11 Nov. 08 10:05	13 Nov. 08 13:15

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.007	0.025	ug/L	AM20GAX	11/22/08	rw
N Ethene		0.100	0.025	ug/L	AM20GAX	11/22/08	rw
N Methane		68.000	0.100	ug/L	AM20GAX	11/22/08	rw

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 #: P0811171
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
039G02LF14	Vapor	P0811171-03	11 Nov. 08 12:45	13 Nov. 08 13:15

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	11/21/08	sl
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	11/21/08	sl
N Hydrogen		3.100	0.600	nM	AM20GAX	11/21/08	sl
N Methane		2200.000	0.015	ug/L	AM20GAX	11/21/08	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 #: P0811171
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
039G13LF21	Vapor	P0811171-04	11 Nov. 08 13:10	13 Nov. 08 13:15

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	11/21/08	sl
N Ethene	J	0.004	0.010	ug/L	AM20GAX	11/21/08	sl
N Hydrogen		3.700	0.600	nM	AM20GAX	11/21/08	sl
N Methane		8.700	0.015	ug/L	AM20GAX	11/21/08	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 #: P0811171
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
039G12LF22	Vapor	P0811171-05	11 Nov. 08 15:30	13 Nov. 08 13:15

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.003	0.010	ug/L	AM20GAX	11/21/08	sl
N Ethene	J	0.005	0.010	ug/L	AM20GAX	11/21/08	sl
N Hydrogen		2.300	0.600	nM	AM20GAX	11/21/08	sl
N Methane		210.000	0.015	ug/L	AM20GAX	11/21/08	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 #: P0811171
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
039G10LF21	Vapor	P0811171-06	12 Nov. 08 10:30	13 Nov. 08 13:15

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.002	0.010	ug/L	AM20GAX	11/22/08	mm
N Ethene	J	0.007	0.010	ug/L	AM20GAX	11/22/08	mm
N Hydrogen		260.000	12.000	nM	AM20GAX	11/23/08	sl
N Methane		45.000	0.015	ug/L	AM20GAX	11/22/08	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

Lab Proj #: P0811171
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
039G22LF14	Vapor	P0811171-07	12 Nov. 08 10:55	13 Nov. 08 13:15

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	11/22/08	mm
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	11/22/08	mm
N Hydrogen		1.900	0.600	nM	AM20GAX	11/22/08	mm
N Methane		6600.000	0.015	ug/L	AM20GAX	11/22/08	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

Lab Proj #: P0811171
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
039G03LF14	Vapor	P0811171-08	12 Nov. 08 12:50	13 Nov. 08 13:15

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	11/22/08	mm
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	11/22/08	mm
N Hydrogen		2.900	0.600	nM	AM20GAX	11/22/08	mm
N Methane		240.000	0.015	ug/L	AM20GAX	11/22/08	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

Lab Proj #: P0811171
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
039G04LF21	Vapor	P0811171-09	12 Nov. 08 13:25	13 Nov. 08 13:15

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	11/22/08	mm
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	11/22/08	mm
N Hydrogen		1.700	0.600	nM	AM20GAX	11/22/08	mm
N Methane		8500.000	0.015	ug/L	AM20GAX	11/22/08	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

Lab Proj #: P0811171
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

M081121005-MB

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

M081121005-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hydrogen	53.000	nM	48.91	108.00	75 - 125

M081121005-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Hydrogen	53.000	nM	48.91	108.00	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 #: P0811171
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

M081121007-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

M081121007-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

M081121007-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

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

Lab Proj #: P0811171
Report Date: 11/24/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Prep Method: Light Hydrocarbons (C1-C4) in Water

Analysis Method: Light Hydrocarbons (C1-C4) in Water

M081122001-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Ethane	< 0.025	ug/L		0.025		- NA
Ethene	< 0.025	ug/L		0.025		- NA
Methane	< 0.100	ug/L		0.100		- NA

M081122001-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Ethane	43.000	ug/L	41.68	103.00	75 - 125
Ethene	40.000	ug/L	38.89	103.00	75 - 125
Methane	840.000	ug/L	822.80	102.00	75 - 125

M081122001-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Ethane	43.000	ug/L	41.68	103.00	75 - 125	0.00	0 - 20
Ethene	40.000	ug/L	38.89	103.00	75 - 125	0.00	0 - 20
Methane	840.000	ug/L	822.80	102.00	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 #: P0811171
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

M081122003-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

M081122003-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

M081122003-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

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

Lab Proj #: P0811171
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

M081122004-MB

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

M081122004-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hydrogen	55.000	nM	48.91	112.00	75 - 125

M081122004-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Hydrogen	55.000	nM	48.91	112.00	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 #: P0811171
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

Chain of Custody Documents

Microseeps Lab. Proj. # 108111 71

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. #

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 Ct., Oak Ridge, TN
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	Hydrogen MEE air vid	MEE back-up vial									Remarks :
Ø14G14LS14		✓			11/10/08	1400	2	1	1									
Ø14GØ2LS24		✓			11/11/08	1005	1		1									well went dry
Ø39GØ2LF14		✓			11/11/08	1245	2	1	1									
Ø39G13LF21		✓			11/11/08	1310	2	1	1									
Ø39G12LF22		✓			11/11/08	1530	2	1	1									
Ø39G1ØLF21		✓			11/12/08	1030	2	1	1									
Ø39G22LF14		✓			11/12/08	1055	2	1	1									
Ø39GØ3LF14		✓			11/12/08	1250	2	1	1									
Ø39GØ4LF21		✓			11/12/08	1325	2	1	1									

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Ronnie Moody	SpectraTech	11/12/08	1600			11/13	0900
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

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: 049FH **Date Rec:** 08/27/2008 **Report Date:** 09/10/2008

Client Project #: **Client Project Name:** NSA Mid South

Purchase Order #:

Analysis Requested: VFA

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:

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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 Acids (mg/L) Pyruvic	Lactic	Formic	Acetic	Propionic	Butyric
039G10LF20	08/26/2008	08/27/2008	Intact	<4	<1	<1	<1	<1	<1
039G03LF13	08/26/2008	08/27/2008	Intact	<4	<1	<1	<1	<1	<1
039G13LF20	08/26/2008	08/27/2008	Intact	<4	<1	<1	<1	<1	<1
039G04LF20	08/26/2008	08/27/2008	Intact	<4	<1	<1	<1	<1	<1
039G02LF13	08/26/2008	08/27/2008	Intact	<4	<1	<1	<1	<1	<1
039G22LF13	08/26/2008	08/27/2008	Intact	<4	<1	<1	<1	<1	<1
014G02LS23	08/26/2008	08/27/2008	Intact	<4	<1	<1	<1	<1	<1
014G14LS23	08/26/2008	08/27/2008	Intact	<4	<1	<1	<1	<1	<1

MICROBIAL INSIGHTS, INC.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
Tel. (865) 573-8188 Fax. (865) 573-8133

Quality Control Report

Compound	MS Recovery %	MSD Recovery %	RPD %	LCS Recovery %
Pyruvic	114.5	108.4	5.5	96.1
Lactic	112.1	113.6	1.3	92.7
Formic	114.2	115.3	1.0	91.1
Acetic	108.4	107.3	1.0	97.0
Propionic	102.7	98.9	3.8	100.5
Butyric	112.0	112.0	0.0	92.2

REPORT TO:

Reports will be provided to the contact(s) listed below. Parties other than the contact(s) listed below will require prior approval.

Name: Paul Gentry
Company: Spectra Tech
Address: 132 Jefferson Court

email:
Phone: ( )
Fax: ( )

Project Manager: Paul Gentry
Project Name: NSA-MID SOUTH
Project No.:

INVOICE TO:

For Invoices **paid by a third party** it is imperative that contact information & corresponding reference No. be provided.

Name:
Company:
Address:

email:
Phone: ( )
Fax: ( )

Purchase Order No.
Subcontract No.

microbialinsights

2340 Stock Creek Blvd.
Rockford, TN 37853-3044
phone (865) 573-8188
fax: (865) 573-8133
email: info@microbe.com
www.microbe.com

Please Check One:

☐ More samples to follow
☐ No Additional Samples

Saturday Delivery
Please see sampling protocol for instructions

Report Type: ☐ Standard (default) ☐ Comprehensive (15% surcharge) ☐ Historical (30% surcharge)

Please contact us prior to submitting samples regarding questions about the analyses you are requesting at (865) 573-8188 (8:00 am to 4:00 pm M-F). After these hours please call (865) 300-8053.

Sample Information											CENSUS: Please select the target organism/gene																							
MI ID (Laboratory Use Only)	Sample Name	Date Sampled	Time Sampled	Matrix	PLFA	VFA	M/E/E	DGGE-3ID	DGGE-5ID		qDHC (Dehalococcoides)	DHC Functional genes	qDHB (Dehalobacter)	qDSM (Desulfuromonas)	qDSB (Desulfitobacterium)	qEBAC (Total)	qDSR (SRBs only)	qSRB/IRB	qMGN (methanogens)	qMOB (methanotrophs)	qDNF (Denitrifying)	qAOB (ammonia oxidizing)	qPM1 (MTBE aerobic)	qTOD (Intial PAHs aerobic)	qCAT (Intermediate PAHs aerobic)	qBSS (Toluen/Xylene Anaerobic)	qNAH (Napthalene aerobic)	add. qPCR:	add. qPCR:	add. qPCR:	RNA (Expression Option)*	Other:	Other:	Other:	Other:
049FH 1	0396 10LF20	8-26-08	1400			2																												
2	0396 03LF13	8-26-08	1354			2																												
3	0396 12LF21	8-26-08	1210			2																												
4	0396 13LF20	8-26-08	1033			2																												
5	0396 04LF20	8-26-08	1530			2																												
6	0396 02LF13	8-26-08	1135			2																												
7	0396 22LF13	8-26-08	1540			2																												
8	0146 02LS23	8-26-08	1325			2																												
9	0146 14LS13	8-26-08	1300			2																												

Relinquished by: Travis Watson Date: 8-26-08 Received by: [illegible] Date 8/27/08

In order for analysis to be completed correctly, it is vital that chain of custody is filled out correctly & that all relative information is provided. Failure to provide sufficient and/or correct information regarding reporting, invoicing & analyses requested information may result in delays for which MI will not be liable. *** additional cost and sample preservation are associated with RNA samples.**

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 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) 483-7210
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.	(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 Sutton		5/17/08 10AM	
Relinquished By: (Signature)	Date / Time	Received By: (Signature) 1848	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

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Page ____ of ____

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

Address	City	State	Zip Code
132 Jefferson Court	OAK RIDGE	TN	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.	(AZR Vial) Methane, ethane	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	Filt. ☐Y ☐N	Filt. ☐Y ☐N
17	PESGMW4D14	5/14/08/1425	GW	2	1	1										
	~~PESGMW4S14~~	~~5/14/08/1035~~	~~GW~~	~~2~~	X	X										
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-058
SC0850

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-058
SC0850

Sample Receipt

The following samples were received on February 20, 2009 and were logged in under Katahdin Analytical Services work order number SC0850 for a hardcopy due date of March 12, 2009.

KATAHDIN Sample No.	SPECTRA TECH Sample Identification
SC0850-1	039G02LF15
SC0850-2	039G13LF22
SC0850-3	039G12LF23
SC0850-4	039E021809
SC0850-5	039G10LF22
SC0850-6	039F021809
SC0850-7	039G03LF15
SC0850-8	039T021909
SC0850-9	039G04LF22
SC0850-10	039H04LF22
SC0850-11	039G22LF15

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-058 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.

One or more target analytes may have been detected above the MDL in some method blanks. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

Samples SC0850-4, 6RA, 8RA, 9RA and 11RA, were manually integrated for one or more of the following target analytes: acetone, vinyl chloride and methylene chloride. 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-058 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 SC0850-(1-3, 5, 7, 9, and 11) were digested for ICP analysis on 02/24/09 (QC Batch ZB24ICW0) in accordance with USEPA Method 3010A.

ICP analyses of SDG NSA-058 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-058 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, with the following exceptions:

Katahdin Sample Nos. SC0850-(1, 2) were received by the laboratory near the end of the method-specified 48 hour holding time for nitrate. These samples were analyzed nitrate as soon as possible after receipt. The holding time exceedances are detailed in the following table.

Katahdin Sample Number	Sampling Date / Time	Analysis Date / Time	Holding Time Exceedance (HH:MM))
SC0850-1	02-18-09 / 10:15	02-20-09 / 11:29	01:14
SC0850-2	02-18-09 / 10:25	02-20-09 / 11:34	01:09

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
03-09-09

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:	Spectra Tech	KAS PM:	SMB	Sampled By:	Client
Project:		KIMS Entry By:	DD	Delivered By:	Fed Ex
KAS Work Order#:	SC0849 / SC0850	KIMS Review By:	[illegible]	Received By:	DD
SDG #:		Cooler: 1 of 1		Date/Time Rec.:	2/20/09 1010

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): 2.3
6. Samples received at < 6 °C w/o freezing? Ice or ice packs present? (Y) or N	✓				Cooler temp. (°C): (if no temp blank)
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?	~~✓~~ DD 3/3/09	✓			
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

Sample #039602LF15 Nitrate exceeds hold time

Sample # 039613LF22 Nitrate exceeds hold time

0000007

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

Client: Spectra Tech, Inc.
Contact: Ronnie Moody
Phone #: (865) 483-7210
Fax #: (865) 483-7[illegible]
Address: 132 Jefferson Ct.
City: Oak Ridge
State: TN
Zip Code: 37830
Purchase Order #:
Proj. Name / No.: NSA mid-South
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Ronnie Moody / Ronnie Moody
Copies To:

LAB USE ONLY
WORK ORDER #: SC0849
KATAHDIN PROJECT NUMBER: SC0850
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.	VOCs (Filt. ❒Y ☒N)	TPCs (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	F ❒Y
	Ø14TØ217Ø9	2/17/09/1110	W	2	2									
	Ø14G12LS15	2/17/09/1115	GW	3	3									
	Ø14G14LS15	2/17/09/1237	GW	7	3	2	1	1						
	Ø14GØ2LS25	2/17/09/1320	GW	7	3	2	1	1						
	Ø14GØ7LF19	2/17/09/1530	GW	3	3									
	Ø14GØ6LF19	2/17/09/1535	GW	3	3									
	Ø14G13LS15	2/17/09/1600	GW	3	3									
	Ø39GØ2LF15	2/18/09/1015	GW	7	3	2	1	1						
	Ø39G13LF22	2/18/09/1025	GW	7	3	2	1	1						
	Ø39H13LF22	2/18/09/1025	GW	6	6	(MS/MSD for Ø39G13LF22)								
	Ø39G12LF23	2/18/09/1225	GW	7	3	2	1	1						
	Ø39EØ218Ø9	2/18/09/1347	W	3	3									
	Ø39G1ØLF22	2/18/09/1350	GW	7	3	2	1	1						
	Ø39FØ218Ø9	2/18/09/1403	W	3	3									
	Ø39GØ3LF15	2/18/09/1425	GW	7	3	2	1	1						
	Ø39TØ219Ø9	2/19/09/Ø82Ø	W	2	2									

OMMENTS

2-20-09 1010

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Ronnie Moody	2/19/09 1430	[signature]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
					0000008

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF

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

Client: SpectraTech, Inc.
Contact:
Phone #: ( )
Fax #: ( )
Address: See page 1
City:
State:
Zip Code:
Purchase Order #:
Proj. Name / No.:
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Ronnie Moody / Ronnie Moody
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.	VOCs (Filt. ☐Y ☒N)	TOCs (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)
	Ø39GØ4LF22	2/19/09/0945	GW	7	3	2	1	1						
	Ø39HØ4LF22	2/19/09/0945	GW	3	3	~~2~~	~~1~~	~~1~~	Run 2/19/09					
	Ø39G22LF15	2/19/09/0955	GW	7	3	2	1	1						
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OMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
	2/20/09 1010	[signature]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
					0000009

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Feb. 25, 2009
12:34 PM

Login Number: SC0850

Account: SPECTRA001 NoWeb
Spectra Tech, Inc.

Project: SPECTRANSA001

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

Oak Ridge,TN 37830
pgentry@spectratechinc.com

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

Oak Ridge,TN 37830

Report CC Addresses:
Invoice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	Rpt to MDL
CHECK NO.	:	
CLIENT PO#	:	N62467-05-G
COOLER TEMPERATURE	:	2.3
DELIVERY SERVICES	:	Fed Ex
EDD FORMAT	:	KAS105QC-CSV
PM	:	SMB
PROJECT NAME	:	NSA South Millington
QC LEVEL	:	IV
REGULATORY LIST	:	NFESC
REPORT INSTRUCTIONS	:	Email SDP and SDS to Ron, Plus mail HC & CD w/ EDD to Ron also
SDG ID	:	NSA-058
SDG STATUS	:	Begin/End

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC0850-1	039G02LF15	18-FEB-09 10:15	20-FEB-09			12-MAR-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	20-FEB-09	125mL Plastic	1	
Aqueous	S	E415.1-TOC	18-MAR-09	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	17-AUG-09		1	
Aqueous	S	SW6010-IRON	17-AUG-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	04-MAR-09	40mL Vial+HCl	3	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC0850-2	039G13LF22	18-FEB-09 10:25	20-FEB-09			12-MAR-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	20-FEB-09	125mL Plastic	1	**MS/MSD on VOA only**
Aqueous	S	E415.1-TOC	18-MAR-09	40 mL Vial+H2SO4	2	
Aqueous	S	MS/MSD-VOA				
Aqueous	S	SW3010-PREP	17-AUG-09		1	
Aqueous	S	SW6010-IRON	17-AUG-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	04-MAR-09	40mL Vial+HCl	9	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC0850-3	039G12LF23	18-FEB-09 12:25	20-FEB-09			12-MAR-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	20-FEB-09	125mL Plastic	1	
Aqueous	S	E415.1-TOC	18-MAR-09	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	17-AUG-09		1	
Aqueous	S	SW6010-IRON	17-AUG-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	04-MAR-09	40mL Vial+HCl	3	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC0850-4	039E021809	18-FEB-09 13:47	20-FEB-09			12-MAR-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	04-MAR-09	40mL Vial+HCl	3	

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Feb. 25, 2009
12:34 PM

Login Number: SC0850

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
SC0850-5	039G10LF22	18-FEB-09 13:50	20-FEB-09			12-MAR-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	20-FEB-09	125mL Plastic	1	
Aqueous	S	E415.1-TOC	18-MAR-09	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	17-AUG-09		1	
Aqueous	S	SW6010-IRON	17-AUG-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	04-MAR-09	40mL Vial+HCl	3	

SC0850-6	039F021809	18-FEB-09 14:03	20-FEB-09	12-MAR-09

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	04-MAR-09	40mL Vial+HCl	3	

SC0850-7	039G03LF15	18-FEB-09 14:25	20-FEB-09	12-MAR-09

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	20-FEB-09	125mL Plastic	1	
Aqueous	S	E415.1-TOC	18-MAR-09	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	17-AUG-09		1	
Aqueous	S	SW6010-IRON	17-AUG-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	04-MAR-09	40mL Vial+HCl	3	

SC0850-8	039T021909	19-FEB-09 08:20	20-FEB-09	12-MAR-09

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	05-MAR-09	40mL Vial+HCl	2	

SC0850-9	039G04LF22	19-FEB-09 09:45	20-FEB-09	12-MAR-09

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	21-FEB-09	125mL Plastic	1	
Aqueous	S	E415.1-TOC	19-MAR-09	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	18-AUG-09		1	
Aqueous	S	SW6010-IRON	18-AUG-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	05-MAR-09	40mL Vial+HCl	3	

SC0850-10	039H04LF22	19-FEB-09 09:45	20-FEB-09	12-MAR-09

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	05-MAR-09	40mL Vial+HCl	3	

SC0850-11	039G22LF15	19-FEB-09 09:55	20-FEB-09	12-MAR-09

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	21-FEB-09	125mL Plastic	1	
Aqueous	S	E415.1-TOC	19-MAR-09	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	18-AUG-09		1	
Aqueous	S	SW6010-IRON	18-AUG-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	05-MAR-09	40mL Vial+HCl	3	

Total Samples: 11 ***Total Analyses: 51***

SAMPLE DATA SUMMARY PACKAGE

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

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)

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

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
TON	Threshold Odor Number
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: 02/18/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 23-FEB-2009 19:06
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-1
Client ID: 039G02LF15
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61123
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	J	0.6	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		3	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		89%				
2037-26-5	Toluene-D8		89%				
17060-07-0	1,2-Dichloroethane-D4		103%				
1868-53-7	Dibromofluoromethane		98%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G02LF15

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-058

Matrix: (soil/water) WATER

Lab Sample ID: SC0850-1

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

Lab File ID: F3609

Level: (low/med) LOW

Date Received: 02/20/09

% Moisture: not dec. _____

Date Analyzed: 02/23/09

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: 02/18/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 25-FEB-2009 12:42
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-2RA
Client ID: 039G13LF22
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
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		93%				
2037-26-5	Toluene-D8		93%				
17060-07-0	1,2-Dichloroethane-D4		88%				
1868-53-7	Dibromofluoromethane		84%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G13LF22

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Matrix: (soil/water) WATER Lab Sample ID: SC0850-2RA

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F3634

Level: (low/med) LOW Date Received: 02/20/09

% Moisture: not dec. _____ Date Analyzed: 02/25/09

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: 02/18/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 23-FEB-2009 19:38
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-3
Client ID: 039G12LF23
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61123
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		86%				
2037-26-5	Toluene-D8		89%				
17060-07-0	1,2-Dichloroethane-D4		103%				
1868-53-7	Dibromofluoromethane		97%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G12LF23

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Matrix: (soil/water) WATER Lab Sample ID: SC0850-3

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F3610

Level: (low/med) LOW Date Received: 02/20/09

% Moisture: not dec. _____ Date Analyzed: 02/23/09

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: 02/18/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 23-FEB-2009 20:09
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-4
Client ID: 039E21809
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61123
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		14	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		90%				
2037-26-5	Toluene-D8		90%				
17060-07-0	1,2-Dichloroethane-D4		103%				
1868-53-7	Dibromofluoromethane		98%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039E21809

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-058

Matrix: (soil/water) WATER

Lab Sample ID: SC0850-4

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

Lab File ID: F3611

Level: (low/med) LOW

Date Received: 02/20/09

% Moisture: not dec. _____

Date Analyzed: 02/23/09

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: 02/18/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 25-FEB-2009 13:13
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-5RA
Client ID: 039G10LF22
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
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	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		93%				
2037-26-5	Toluene-D8		92%				
17060-07-0	1,2-Dichloroethane-D4		88%				
1868-53-7	Dibromofluoromethane		87%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G10LF22

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-058

Matrix: (soil/water) WATER

Lab Sample ID: SC0850-5RA

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

Lab File ID: F3635

Level: (low/med) LOW

Date Received: 02/20/09

% Moisture: not dec. _____

Date Analyzed: 02/25/09

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: 02/18/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 25-FEB-2009 13:44
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-6RA
Client ID: 039F021809
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
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	0.5	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		90%				
2037-26-5	Toluene-D8		89%				
17060-07-0	1,2-Dichloroethane-D4		91%				
1868-53-7	Dibromofluoromethane		85%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039F021809

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Matrix: (soil/water) WATER Lab Sample ID: SC0850-6RA

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F3636

Level: (low/med) LOW Date Received: 02/20/09

% Moisture: not dec. _____ Date Analyzed: 02/25/09

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: 02/18/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 25-FEB-2009 14:15
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-7RA
Client ID: 039G03LF15
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
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	J	0.6	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	0.5	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	0.8	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene		43	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		150	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		50	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		93%				
2037-26-5	Toluene-D8		87%				
17060-07-0	1,2-Dichloroethane-D4		91%				
1868-53-7	Dibromofluoromethane		89%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G03LF15

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Matrix: (soil/water) WATER Lab Sample ID: SC0850-7RA

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F3637

Level: (low/med) LOW Date Received: 02/20/09

% Moisture: not dec. _____ Date Analyzed: 02/25/09

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: 02/19/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 25-FEB-2009 14:46
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-8RA
Client ID: 039T021909
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	J	0.4	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	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		90%				
2037-26-5	Toluene-D8		85%				
17060-07-0	1,2-Dichloroethane-D4		92%				
1868-53-7	Dibromofluoromethane		87%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039T021909

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-058

Matrix: (soil/water) WATER

Lab Sample ID: SC0850-8RA

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

Lab File ID: F3638

Level: (low/med) LOW

Date Received: 02/20/09

% Moisture: not dec. _____

Date Analyzed: 02/25/09

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: 02/19/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 25-FEB-2009 15:17
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-9RA
Client ID: 039G04LF22
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
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	J	0.3	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	J	0.6	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		170	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		91	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		90%				
2037-26-5	Toluene-D8		91%				
17060-07-0	1,2-Dichloroethane-D4		92%				
1868-53-7	Dibromofluoromethane		86%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G04LF22

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Matrix: (soil/water) WATER Lab Sample ID: SC0850-9RA

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F3639

Level: (low/med) LOW Date Received: 02/20/09

% Moisture: not dec. _____ Date Analyzed: 02/25/09

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: 02/19/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 25-FEB-2009 15:48
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-10RA
Client ID: 039H04LF22
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
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	0.8	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.6	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		160	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		87	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		93%				
2037-26-5	Toluene-D8		94%				
17060-07-0	1,2-Dichloroethane-D4		96%				
1868-53-7	Dibromofluoromethane		89%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039H04LF22

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-058

Matrix: (soil/water) WATER

Lab Sample ID: SC0850-10RA

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

Lab File ID: F3640

Level: (low/med) LOW

Date Received: 02/20/09

% Moisture: not dec. _____

Date Analyzed: 02/25/09

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: 02/19/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 25-FEB-2009 16:19
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-11RA
Client ID: 039G22LF15
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
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	0.6	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.6	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		160	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		93%				
2037-26-5	Toluene-D8		96%				
17060-07-0	1,2-Dichloroethane-D4		96%				
1868-53-7	Dibromofluoromethane		88%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G22LF15

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-058

Matrix: (soil/water) WATER

Lab Sample ID: SC0850-11RA

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

Lab File ID: F3641

Level: (low/med) LOW

Date Received: 02/20/09

% Moisture: not dec. _____

Date Analyzed: 02/25/09

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:
Project: NSA South Millington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 23-FEB-2009 11:50
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: WG61123-2
Client ID: WG61123-Blank
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61123
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.3
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.3
74-83-9	Bromomethane	U	1	1.0	1	1	0.3
75-00-3	Chloroethane	U	1	1.0	1	1	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	J	2	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		87%				
2037-26-5	Toluene-D8		90%				
17060-07-0	1,2-Dichloroethane-D4		95%				
1868-53-7	Dibromofluoromethane		92%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

WG61123-Blank

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-058

Matrix: (soil/water) WATER

Lab Sample ID: WG61123-2

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

Lab File ID: F3595

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 02/23/09

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:
Project: NSA South Millington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 25-FEB-2009 11:40
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: WG61203-2
Client ID: WG61203-Blank
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.3
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.3
74-83-9	Bromomethane	U	1	1.0	1	1	0.3
75-00-3	Chloroethane	U	1	1.0	1	1	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	J	2	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		91%				
2037-26-5	Toluene-D8		86%				
17060-07-0	1,2-Dichloroethane-D4		86%				
1868-53-7	Dibromofluoromethane		82%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

WG61203-Blank

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Matrix: (soil/water) WATER Lab Sample ID: WG61203-2

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F3632

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 02/25/09

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

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 DBF#	SMC2 DCA#	SMC3 TOL#	SMC4 BFB#	TOT OUT
01	WG61123-LCS	WG61123-1	90	90	90	86	0
02	WG61123-BLANK	WG61123-2	92	95	90	87	0
03	039G02LF15	SC0850-1	98	103	89	89	0
04	039G12LF23	SC0850-3	97	103	89	86	0
05	039E21809	SC0850-4	98	103	90	90	0
06	WG61203-LCS	WG61203-1	83	80	90	90	0
07	WG61203-BLANK	WG61203-2	82	86	86	91	0
08	039G13LF22	SC0850-2RA	84	88	93	93	0
09	039G10LF22	SC0850-5RA	87	88	92	93	0
10	039F021809	SC0850-6RA	85	91	89	90	0
11	039G03LF15	SC0850-7RA	89	91	87	93	0
12	039T021909	SC0850-8RA	87	92	85	90	0
13	039G04LF22	SC0850-9RA	86	92	91	90	0
14	039H04LF22	SC0850-10RA	89	96	94	93	0
15	039G22LF15	SC0850-11RA	88	96	96	93	0
16	039G13LF22MS	WG61203-3	87	88	88	93	0
17	039G13LF22MSD	WG61203-4	88	88	87	91	0
18							
19							
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		QC LIMITS
SMC1 (DBF)	= Dibromofluoromethane	(78-116)
SMC2 (DCA)	= 1,2-Dichloroethane-D4	(70-124)
SMC3 (TOL)	= Toluene-D8	(70-123)
SMC4 (BFB)	= P-Bromofluorobenzene	(69-119)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NSA South Millington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/23/09
Report Date: 03/02/2009
Matrix: WATER

Lab ID: WG61123-1
Client ID: WG61123-LCS
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61123
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	66		133	40-192
Chloromethane	50	NA	63		126	47-151
Vinyl chloride	50	NA	60		121	63-141
Bromomethane	50	NA	66		133	41-169
Chloroethane	50	NA	65		129	57-145
Trichlorofluoromethane	50	NA	63		125	85-164
Diethyl Ether	50	NA	53		106	74-132
Tertiary-butyl alcohol	250	NA	259		104	30-162
1,1-Dichloroethene	50	NA	53		105	79-126
Carbon Disulfide	50	NA	53		106	72-127
Freon-113	50	NA	52		103	78-132
Iodomethane	50	NA	55		110	54-181
Acrolein	250	NA	362	*	145	67-125
Methylene Chloride	50	NA	52		104	70-120
Acetone	50	NA	64		128	54-134
Isobutyl Alcohol	1000	NA	971		97	28-157
trans-1,2-Dichloroethene	50	NA	54		107	76-127
Allyl Chloride	50	NA	52		103	62-141
Methyl tert-butyl ether	100	NA	107		107	78-136
Acetonitrile	500	NA	544		109	47-143
Di-isopropyl ether	50	NA	56		112	72-129
Chloroprene	50	NA	52		105	74-132
Methacrylonitrile	500	NA	600		120	67-138
Propionitrile	500	NA	594		119	61-136
1,1-Dichloroethane	50	NA	54		109	80-126
Acrylonitrile	250	NA	284		114	63-135
Ethyl tertiary-butyl ether	50	NA	55		110	79-124
Vinyl Acetate	50	NA	46		92	68-135
cis-1,2-Dichloroethene	50	NA	48		96	80-116
1,2-Dichloroethylene (total)	100	NA	102		102	79-121
Methyl Methacrylate	50	NA	53		106	70-133
2,2-Dichloropropane	50	NA	51		101	66-150
Bromochloromethane	50	NA	50		100	90-131
Chloroform	50	NA	50		99	86-124
Carbon Tetrachloride	50	NA	45		89	73-146
Tetrahydrofuran	50	NA	57		114	66-120
1,1,1-Trichloroethane	50	NA	48		97	88-125
1,1-Dichloropropene	50	NA	48		95	84-123
2-Butanone	50	NA	58		115	59-125
Benzene	50	NA	49		99	88-115
Cyclohexane	50	NA	54		109	60-150
Ethyl Methacrylate	50	NA	52		104	76-121
Tertiary-amyl methyl ether	50	NA	52		104	80-122
1,2-Dichloroethane	50	NA	48		96	82-125
Trichloroethene	50	NA	46		92	84-115

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NSA South Millington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/23/09
Report Date: 03/02/2009
Matrix: WATER

Lab ID: WG61123-1
Client ID: WG61123-LCS
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61123
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dibromomethane	50	NA	46		93	83-121
1,2-Dichloropropane	50	NA	50		100	79-121
Bromodichloromethane	50	NA	46		92	89-113
cis-1,3-dichloropropene	50	NA	48		97	87-118
1,4-Dioxane	1000	NA	678		68	10-156
2-Chloroethylvinylether	50	NA	49		98	30-177
Toluene	50	NA	47		94	87-119
4-methyl-2-pentanone	50	NA	56		113	70-123
Tetrachloroethene	50	NA	44		88	58-147
trans-1,3-Dichloropropene	50	NA	53		105	90-137
1,1,2-Trichloroethane	50	NA	47		93	80-115
Dibromochloromethane	50	NA	45		91	84-122
1,3-Dichloropropane	50	NA	50		100	76-118
1,2-Dibromoethane	50	NA	47		94	83-116
2-Hexanone	50	NA	58		116	66-121
Chlorobenzene	50	NA	48		95	88-112
Ethylbenzene	50	NA	48		96	86-116
1,1,1,2-Tetrachloroethane	50	NA	47		94	83-118
Xylenes (total)	150	NA	146		97	84-120
m+p-Xylenes	100	NA	97		97	83-122
o-Xylene	50	NA	50		99	82-119
Styrene	50	NA	46		92	85-116
Bromoform	50	NA	45		89	78-127
Isopropylbenzene	50	NA	50		101	90-132
cis-1,4-Dichloro-2-Butene	50	NA	47		93	70-126
trans-1,4-Dichloro-2-Butene	50	NA	49		97	69-132
Bromobenzene	50	NA	45		89	87-113
N-Propylbenzene	50	NA	48		96	84-121
1,1,2,2-Tetrachloroethane	50	NA	46		91	72-119
1,3,5-Trimethylbenzene	50	NA	45		89	84-121
2-Chlorotoluene	50	NA	45		91	85-114
1,2,3-Trichloropropane	50	NA	48		95	74-114
4-Chlorotoluene	50	NA	47		94	81-120
tert-Butylbenzene	50	NA	47		93	73-132
Pentachloroethane	50	NA	48		96	32-163
1,2,4-Trimethylbenzene	50	NA	43		86	80-116
P-Isopropyltoluene	50	NA	45		91	82-125
1,3-Dichlorobenzene	50	NA	46		91	82-118
1,4-Dichlorobenzene	50	NA	46		93	83-113
N-Butylbenzene	50	NA	43		87	72-128
sec-Butylbenzene	50	NA	45		90	83-120
1,2-Dichlorobenzene	50	NA	44		88	83-116
1,2-Dibromo-3-Chloropropane	50	NA	41		82	69-121
1,3,5-Trichlorobenzene	50	NA	38	*	76	80-123
Hexachlorobutadiene	50	NA	38		76	61-124

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NSA South Millington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/23/09
Report Date: 03/02/2009
Matrix: WATER

Lab ID: WG61123-1
Client ID: WG61123-LCS
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61123
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	43	86	71-127
1,2,3-Trimethylbenzene	50	NA	48	96	89-115
Naphthalene	50	NA	42	83	57-132
1,2,3-Trichlorobenzene	50	NA	40	80	62-124
Methyl Acetate	50	NA	58	115	62-137
Methylcyclohexane	50	NA	49	98	74-128
1-Chlorohexane	50	NA	50	100	84-118
Total Alkylbenzenes	350	NA	316	90	60-140

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NSA South Millington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/25/09
Report Date: 03/02/2009
Matrix: WATER

Lab ID: WG61203-1
Client ID: WG61203-LCS
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	59	118	40-192
Chloromethane	50	NA	53	106	47-151
Vinyl chloride	50	NA	52	105	63-141
Bromomethane	50	NA	49	99	41-169
Chloroethane	50	NA	63	127	57-145
Trichlorofluoromethane	50	NA	56	113	85-164
Diethyl Ether	50	NA	45	90	74-132
Tertiary-butyl alcohol	250	NA	207	83	30-162
1,1-Dichloroethene	50	NA	54	107	79-126
Carbon Disulfide	50	NA	52	103	72-127
Freon-113	50	NA	49	98	78-132
Iodomethane	50	NA	52	104	54-181
Acrolein	250	NA	220	88	67-125
Methylene Chloride	50	NA	50	101	70-120
Acetone	50	NA	58	116	54-134
Isobutyl Alcohol	1000	NA	819	82	28-157
trans-1,2-Dichloroethene	50	NA	50	101	76-127
Allyl Chloride	50	NA	49	99	62-141
Methyl tert-butyl ether	100	NA	95	95	78-136
Acetonitrile	500	NA	266	53	47-143
Di-isopropyl ether	50	NA	48	97	72-129
Chloroprene	50	NA	47	95	74-132
Methacrylonitrile	500	NA	438	88	67-138
Propionitrile	500	NA	439	88	61-136
1,1-Dichloroethane	50	NA	51	102	80-126
Acrylonitrile	250	NA	224	90	63-135
Ethyl tertiary-butyl ether	50	NA	47	94	79-124
Vinyl Acetate	50	NA	40	79	68-135
cis-1,2-Dichloroethene	50	NA	49	98	80-116
1,2-Dichloroethylene (total)	100	NA	99	99	79-121
Methyl Methacrylate	50	NA	43	87	70-133
2,2-Dichloropropane	50	NA	52	105	66-150
Bromochloromethane	50	NA	51	102	90-131
Chloroform	50	NA	50	100	86-124
Carbon Tetrachloride	50	NA	51	103	73-146
Tetrahydrofuran	50	NA	44	88	66-120
1,1,1-Trichloroethane	50	NA	51	101	88-125
1,1-Dichloropropene	50	NA	49	97	84-123
2-Butanone	50	NA	46	92	59-125
Benzene	50	NA	49	98	88-115
Cyclohexane	50	NA	51	101	60-150
Ethyl Methacrylate	50	NA	48	95	76-121
Tertiary-amyl methyl ether	50	NA	47	94	80-122
1,2-Dichloroethane	50	NA	48	97	82-125
Trichloroethene	50	NA	49	99	84-115

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NSA South Millington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/25/09
Report Date: 03/02/2009
Matrix: WATER

Lab ID: WG61203-1
Client ID: WG61203-LCS
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dibromomethane	50	NA	48	96	83-121
1,2-Dichloropropane	50	NA	49	97	79-121
Bromodichloromethane	50	NA	49	98	89-113
cis-1,3-dichloropropene	50	NA	50	101	87-118
1,4-Dioxane	1000	NA	620	62	10-156
2-Chloroethylvinylether	50	NA	47	94	30-177
Toluene	50	NA	48	97	87-119
4-methyl-2-pentanone	50	NA	49	99	70-123
Tetrachloroethene	50	NA	44	87	58-147
trans-1,3-Dichloropropene	50	NA	56	112	90-137
1,1,2-Trichloroethane	50	NA	48	97	80-115
Dibromochloromethane	50	NA	46	93	84-122
1,3-Dichloropropane	50	NA	47	93	76-118
1,2-Dibromoethane	50	NA	47	95	83-116
2-Hexanone	50	NA	48	97	66-121
Chlorobenzene	50	NA	48	96	88-112
Ethylbenzene	50	NA	46	92	86-116
1,1,1,2-Tetrachloroethane	50	NA	47	94	83-118
Xylenes (total)	150	NA	144	96	84-120
m+p-Xylenes	100	NA	97	97	83-122
o-Xylene	50	NA	47	95	82-119
Styrene	50	NA	48	95	85-116
Bromoform	50	NA	47	94	78-127
Isopropylbenzene	50	NA	58	116	90-132
cis-1,4-Dichloro-2-Butene	50	NA	49	99	70-126
trans-1,4-Dichloro-2-Butene	50	NA	53	106	69-132
Bromobenzene	50	NA	51	101	87-113
N-Propylbenzene	50	NA	52	104	84-121
1,1,2,2-Tetrachloroethane	50	NA	48	95	72-119
1,3,5-Trimethylbenzene	50	NA	53	105	84-121
2-Chlorotoluene	50	NA	50	99	85-114
1,2,3-Trichloropropane	50	NA	46	91	74-114
4-Chlorotoluene	50	NA	51	103	81-120
tert-Butylbenzene	50	NA	52	104	73-132
Pentachloroethane	50	NA	61	121	32-163
1,2,4-Trimethylbenzene	50	NA	49	98	80-116
P-Isopropyltoluene	50	NA	53	106	82-125
1,3-Dichlorobenzene	50	NA	51	101	82-118
1,4-Dichlorobenzene	50	NA	48	95	83-113
N-Butylbenzene	50	NA	51	102	72-128
sec-Butylbenzene	50	NA	53	105	83-120
1,2-Dichlorobenzene	50	NA	50	99	83-116
1,2-Dibromo-3-Chloropropane	50	NA	45	89	69-121
1,3,5-Trichlorobenzene	50	NA	48	96	80-123
Hexachlorobutadiene	50	NA	45	89	61-124

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NSA South Millington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/25/09
Report Date: 03/02/2009
Matrix: WATER

Lab ID: WG61203-1
Client ID: WG61203-LCS
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	46		92	71-127
1,2,3-Trimethylbenzene	50	NA	49		97	89-115
Naphthalene	50	NA	42		84	57-132
1,2,3-Trichlorobenzene	50	NA	42		83	62-124
Methyl Acetate	50	NA	52		105	62-137
Methylcyclohexane	50	NA	48		96	74-128
1-Chlorohexane	50	NA	41	*	82	84-118
Total Alkylbenzenes	350	NA	363		104	60-140

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 02/18/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 02/25/09
Report Date: 03/02/2009
Matrix: WATER

Lab ID: WG61203-3 & WG61203-4
Client ID: 039G13LF22MS & 039G13LF22MSD
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
Units: ug/l

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Chloromethane	50	50	0.00	59	56	119	111	7	20	47-151
Vinyl chloride	50	50	0.00	58	55	116	110	6	20	63-141
Bromomethane	50	50	0.00	57	52	113	105	8	20	41-169
Chloroethane	50	50	0.00	74	63	* 148	127	15	20	57-145
1,1-Dichloroethene	50	50	0.00	52	54	104	108	4	20	79-126
Carbon Disulfide	50	50	0.00	49	50	98	100	2	20	72-127
Methylene Chloride	50	50	0.00	45	46	90	92	2	20	70-120
Acetone	50	50	0.00	40	44	81	88	8	20	54-134
trans-1,2-Dichloroethene	50	50	0.00	50	47	100	94	6	20	76-127
1,1-Dichloroethane	50	50	0.00	55	52	111	103	7	20	80-126
cis-1,2-Dichloroethene	50	50	0.00	54	53	109	106	3	20	80-116
Chloroform	50	50	0.00	53	51	106	102	4	20	86-124
Carbon Tetrachloride	50	50	0.00	53	50	106	101	5	20	73-146
1,1,1-Trichloroethane	50	50	0.00	55	54	109	108	1	20	88-125
2-Butanone	50	50	0.00	47	46	94	93	1	20	59-125
Benzene	50	50	0.00	54	52	109	104	4	20	88-115
1,2-Dichloroethane	50	50	0.00	50	48	100	96	4	20	82-125
Trichloroethene	50	50	0.00	54	51	109	101	7	20	84-115
1,2-Dichloropropane	50	50	0.00	52	49	104	99	6	20	79-121
Bromodichloromethane	50	50	0.00	53	51	106	101	4	20	89-113
cis-1,3-dichloropropene	50	50	0.00	52	50	104	99	5	20	87-118
Toluene	50	50	0.00	51	48	102	97	5	20	87-119
4-methyl-2-pentanone	50	50	0.00	55	50	111	100	10	20	70-123
Tetrachloroethene	50	50	0.00	42	40	83	79	5	20	58-147
trans-1,3-Dichloropropene	50	50	0.00	56	53	112	106	6	20	90-137
1,1,2-Trichloroethane	50	50	0.00	50	51	100	102	2	20	80-115
Dibromochloromethane	50	50	0.00	47	46	95	92	3	20	84-122
2-Hexanone	50	50	0.00	47	45	94	89	6	20	66-121
Chlorobenzene	50	50	0.00	49	50	98	99	2	20	88-112
Ethylbenzene	50	50	0.00	50	50	100	101	1.0	20	86-116
Xylenes (total)	150	150	0.00	154	147	103	98	5	20	84-120
m+p-Xylenes	100	100	0.00	102	98	102	98	4	20	83-122
o-Xylene	50	50	0.00	52	50	104	99	5	20	82-119
Styrene	50	50	0.00	50	51	101	101	0.4	20	85-116
Bromoform	50	50	0.00	46	46	92	93	0.6	20	78-127
1,1,2,2-Tetrachloroethane	50	50	0.00	50	48	99	96	3	20	72-119

FORM III VOA-1
F3648.D & F3649.D

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG61123-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID: F3595 Lab Sample ID: WG61123-2

Date Analyzed: 02/23/09 Time Analyzed: 1150

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG61123-LCS	WG61123-1	F3593	02/23/09	1038
02	039G02LF15	SC0850-1	F3609	02/23/09	1906
03	039G12LF23	SC0850-3	F3610	02/23/09	1938
04	039E21809	SC0850-4	F3611	02/23/09	2009
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COMMENTS:

FORM IVVOA

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG61203-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID: F3632 Lab Sample ID: WG61203-2

Date Analyzed: 02/25/09 Time Analyzed: 1140

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG61203-LCS	WG61203-1	F3630	02/25/09	1026
02	039G13LF22	SC0850-2RA	F3634	02/25/09	1242
03	039G10LF22	SC0850-5RA	F3635	02/25/09	1313
04	039F021809	SC0850-6RA	F3636	02/25/09	1344
05	039G03LF15	SC0850-7RA	F3637	02/25/09	1415
06	039T021909	SC0850-8RA	F3638	02/25/09	1446
07	039G04LF22	SC0850-9RA	F3639	02/25/09	1517
08	039H04LF22	SC0850-10RA	F3640	02/25/09	1548
09	039G22LF15	SC0850-11RA	F3641	02/25/09	1619
10	039G13LF22MS	WG61203-3	F3648	02/25/09	1958
11	039G13LF22MSD	WG61203-4	F3649	02/25/09	2030
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COMMENTS:

FORM IVVOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID: FB120 BFB Injection Date: 02/10/09

Instrument ID: GCMS-F BFB Injection Time: 1118

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.7
75	30.0 - 60.0% of mass 95	41.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	101.1
175	5.0 - 9.0% of mass 174	7.7 (7.6)1
176	95.0 - 101.0% of mass 174	98.8 (97.7)1
177	5.0 - 9.0% of mass 176	7.6 (7.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD200F10A	F3405	02/10/09	1146
02		VSTD100F10A	F3406	02/10/09	1217
03		VSTD050F10A	F3407	02/10/09	1248
04		VSTD020F10A	F3408	02/10/09	1319
05		VSTD005F10A	F3409	02/10/09	1350
06		VSTD001F10A	F3410	02/10/09	1421
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FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID: FB129 BFB Injection Date: 02/23/09

Instrument ID: GCMS-F BFB Injection Time: 0928

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.9
75	30.0 - 60.0% of mass 95	51.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	58.2
175	5.0 - 9.0% of mass 174	4.7 (8.1)1
176	95.0 - 101.0% of mass 174	58.0 (99.6)1
177	5.0 - 9.0% of mass 176	4.4 (7.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050F23A	F3592	02/23/09	0950
02	WG61123-LCS	WG61123-1	F3593	02/23/09	1038
03	WG61123-BLANK	WG61123-2	F3595	02/23/09	1150
04	039G02LF15	SC0850-1	F3609	02/23/09	1906
05	039G12LF23	SC0850-3	F3610	02/23/09	1938
06	039E21809	SC0850-4	F3611	02/23/09	2009
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FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID: FB130 BFB Injection Date: 02/24/09

Instrument ID: GCMS-F BFB Injection Time: 0850

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.9
75	30.0 - 60.0% of mass 95	38.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	95.6
175	5.0 - 9.0% of mass 174	5.8 (6.1)1
176	95.0 - 101.0% of mass 174	96.3 (100.8)1
177	5.0 - 9.0% of mass 176	6.2 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD200F24A	F3620	02/24/09	1149
02		VSTD100F24A	F3621	02/24/09	1219
03		VSTD050F24C	F3622	02/24/09	1250
04		VSTD020F24A	F3623	02/24/09	1321
05		VSTD005F24A	F3624	02/24/09	1353
06		VSTD001F24A	F3625	02/24/09	1424
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FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID: FB131 BFB Injection Date: 02/25/09

Instrument ID: GCMS-F BFB Injection Time: 0919

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.2
75	30.0 - 60.0% of mass 95	53.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	63.2
175	5.0 - 9.0% of mass 174	4.9 (7.7)1
176	95.0 - 101.0% of mass 174	63.5 (100.5)1
177	5.0 - 9.0% of mass 176	4.4 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050F25A	F3629	02/25/09	0942
02	WG61203-LCS	WG61203-1	F3630	02/25/09	1026
03	WG61203-BLANK	WG61203-2	F3632	02/25/09	1140
04	039G13LF22	SC0850-2RA	F3634	02/25/09	1242
05	039G10LF22	SC0850-5RA	F3635	02/25/09	1313
06	039F021809	SC0850-6RA	F3636	02/25/09	1344
07	039G03LF15	SC0850-7RA	F3637	02/25/09	1415
08	039T021909	SC0850-8RA	F3638	02/25/09	1446
09	039G04LF22	SC0850-9RA	F3639	02/25/09	1517
10	039H04LF22	SC0850-10RA	F3640	02/25/09	1548
11	039G22LF15	SC0850-11RA	F3641	02/25/09	1619
12	039G13LF22MS	WG61203-3	F3648	02/25/09	1958
13	039G13LF22MSD	WG61203-4	F3649	02/25/09	2030
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FORM V VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NSA SOUTH MILLINGTON SDG No.: NSA-058

Instrument ID: GCMS-F Calibration Date(s): 02/10/09 02/10/09

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1146 1421

LAB FILE ID: RF1: F3410 RF5: F3409 RF20: F3408
RF50: F3407 RF100: F3406 RF200: F3405

COMPOUND	RF1	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2
Chloromethane	0.858	0.832	0.832	0.824	0.818	0.821	AVRG		0.83102885		1.746	15.000
Vinyl chloride	0.626	0.733	0.705	0.719	0.704	0.678	AVRG		0.69417211		5.512	15.000
Bromomethane	4489	19716	81628	197380	329550	708410	LINR	-7.55e-002	3.29960402		0.99545	0.99000
Chloroethane	3392	14683	52173	126870	200230	406710	2ORDR	-2.81e-002	4.09474649	2.42521002	0.99681	0.99000
1,1-Dichloroethene	0.406	0.394	0.357	0.376	0.368	0.351	AVRG		0.37536465		5.653	15.000
Carbon Disulfide	1.262	1.343	1.305	1.350	1.319	1.255	AVRG		1.30574117		3.056	15.000
Methylene Chloride	9825	27722	92979	216920	466420	1010300	LINR	-1.73e-002	2.31227032		0.99983	0.99000
Acetone	0.119	0.112	0.108	0.109	0.110	0.106	AVRG		0.11081917		3.964	15.000
trans-1,2-Dichloroethene	0.451	0.416	0.400	0.410	0.415	0.408	AVRG		0.41678733		4.297	15.000
1,1-Dichloroethane	1.024	0.998	1.008	1.023	0.979	1.004	AVRG		1.00625783		1.678	15.000
cis-1,2-Dichloroethene	0.627	0.593	0.598	0.606	0.600	0.601	AVRG		0.60415277		1.996	15.000
Chloroform	0.944	0.923	0.886	0.927	0.906	0.911	AVRG		0.91618036		2.144	15.000
Carbon Tetrachloride	0.443	0.447	0.469	0.461	0.476	0.461	AVRG		0.45965260		2.760	15.000
1,1,1-Trichloroethane	0.719	0.704	0.716	0.736	0.730	0.697	AVRG		0.71695695		2.052	15.000
2-Butanone	0.207	0.245	0.239	0.256	0.254	0.236	AVRG		0.23932939		7.411	15.000
Benzene	1.389	1.397	1.439	1.330	1.432	1.321	AVRG		1.38466033		3.592	15.000
1,2-Dichloroethane	0.472	0.439	0.467	0.458	0.478	0.466	AVRG		0.46329477		2.941	15.000
Trichloroethene	0.366	0.365	0.376	0.363	0.360	0.352	AVRG		0.36372925		2.148	15.000
1,2-Dichloropropane	0.390	0.373	0.375	0.375	0.379	0.360	AVRG		0.37547696		2.602	15.000
Bromodichloromethane	0.499	0.489	0.508	0.504	0.514	0.476	AVRG		0.49840244		2.740	15.000
cis-1,3-dichloropropene	0.580	0.591	0.605	0.593	0.582	0.534	AVRG		0.58085671		4.222	15.000
Toluene	0.765	0.816	0.814	0.765	0.804	0.710	AVRG		0.77895795		5.253	15.000
4-methyl-2-pentanone	0.325	0.350	0.349	0.338	0.317	0.244	AVRG		0.32052262		12.397	15.000
Tetrachloroethene	0.416	0.500	0.441	0.409	0.422	0.400	AVRG		0.43128712		8.412	15.000
trans-1,3-Dichloropropene	0.439	0.486	0.485	0.477	0.470	0.426	AVRG		0.46403048		5.445	15.000
1,1,2-Trichloroethane	0.278	0.282	0.261	0.255	0.273	0.246	AVRG		0.26585185		5.244	15.000
Dibromochloromethane	0.480	0.523	0.548	0.518	0.535	0.551	AVRG		0.52591248		4.982	15.000
2-Hexanone	0.274	0.306	0.310	0.292	0.280	0.266	AVRG		0.28810438		6.074	15.000
Chlorobenzene	1.049	1.073	1.134	1.038	1.045	0.963	AVRG		1.05028008		5.263	15.000
Ethylbenzene	0.535	0.513	0.556	0.530	0.519	0.485	AVRG		0.52312453		4.565	15.000
Xylenes (total)							AVRG					0.000
m+p-Xylenes	0.592	0.654	0.637	0.610	0.601	0.539	AVRG		0.60551293		6.590	15.000
o-Xylene	0.601	0.628	0.659	0.610	0.672	0.584	AVRG		0.62570784		5.439	15.000
Styrene	1.065	1.076	1.186	1.078	1.102	1.004	AVRG		1.08523591		5.453	15.000
Bromoform	0.352	0.365	0.397	0.376	0.390	0.373	AVRG		0.37569206		4.338	15.000
1,1,2,2-Tetrachloroethane	0.884	0.845	0.945	0.854	0.839	0.776	AVRG		0.85714380		6.506	15.000
P-Bromofluorobenzene	0.560	0.478	0.425	0.394	0.425	0.375	AVRG		0.44284960		15.141	15.000
Toluene-D8	1.207	1.138	1.051	1.006	1.025	1.027	AVRG		1.07575943		7.381	15.000
1,2-Dichloroethane-D4	0.686	0.518	0.510	0.495	0.516	0.521	AVRG		0.54117469		13.179	15.000
Dibromofluoromethane	0.642	0.624	0.566	0.571	0.599	0.606	AVRG		0.60131733		4.916	15.000

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NSA SOUTH MILLINGTON SDG No.: NSA-058

Instrument ID: GCMS-F Calibration Date(s): 02/10/09 02/10/09

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1146 1421

Average %RSD test result.

Calculate Average %RSD: 6.808800220
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NSA SOUTH MILLINGTON SDG No.: NSA-058

Instrument ID: GCMS-F Calibration Date(s): 02/24/09 02/24/09

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1149 1424

LAB FILE ID: RF1: F3625 RF5: F3624 RF20: F3623
RF50: F3622 RF100: F3621 RF200: F3620

COMPOUND	RF1	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
Chloromethane	1.033	1.024	0.882	0.922	0.928	1.028	AVRG		0.96953060	6.846	15.000
Vinyl chloride	0.817	0.815	0.710	0.748	0.765	0.845	AVRG		0.78317262	6.485	15.000
Bromomethane	0.524	0.560	0.443	0.428	0.385	0.409	AVRG		0.45813002	14.997	15.000
Chloroethane	2536	13021	41039	103420	159530	380550	LINR	-2.96e-002	4.31007940	0.99250	0.99000
1,1-Dichloroethene	0.416	0.448	0.380	0.388	0.405	0.395	AVRG		0.40535279	6.070	15.000
Carbon Disulfide	1.488	1.611	1.358	1.395	1.414	1.410	AVRG		1.44600365	6.323	15.000
Methylene Chloride	11628	24488	71950	181110	368600	817770	LINR	1.5e-003	1.99046901	0.99872	0.99000
Acetone	0.133	0.130	0.119	0.123	0.118	0.127	AVRG		0.12510470	4.539	15.000
trans-1,2-Dichloroethene	0.471	0.491	0.430	0.461	0.451	0.457	AVRG		0.46019314	4.432	15.000
1,1-Dichloroethane	1.077	1.115	0.996	1.086	1.029	1.110	AVRG		1.06876779	4.414	15.000
cis-1,2-Dichloroethene	0.562	0.612	0.548	0.576	0.596	0.645	AVRG		0.58967481	6.009	15.000
Chloroform	0.972	0.955	0.871	0.934	0.944	0.988	AVRG		0.94402121	4.320	15.000
Carbon Tetrachloride	0.390	0.426	0.376	0.422	0.427	0.456	AVRG		0.41617348	6.908	15.000
1,1,1-Trichloroethane	0.657	0.718	0.656	0.716	0.754	0.771	AVRG		0.71213345	6.715	15.000
2-Butanone	0.308	0.308	0.259	0.274	0.286	0.274	AVRG		0.28476284	6.957	15.000
Benzene	1.379	1.371	1.276	1.310	1.358	1.416	AVRG		1.35177160	3.735	15.000
1,2-Dichloroethane	0.539	0.504	0.442	0.468	0.486	0.482	AVRG		0.48671366	6.756	15.000
Trichloroethene	0.331	0.364	0.320	0.355	0.365	0.370	AVRG		0.35099852	5.873	15.000
1,2-Dichloropropane	0.382	0.403	0.361	0.390	0.386	0.393	AVRG		0.38563454	3.666	15.000
Bromodichloromethane	0.446	0.504	0.454	0.485	0.484	0.517	AVRG		0.48176823	5.676	15.000
cis-1,3-dichloropropene	0.561	0.572	0.556	0.561	0.544	0.563	AVRG		0.55939757	1.626	15.000
Toluene	0.806	0.805	0.709	0.776	0.792	0.760	AVRG		0.77477722	4.748	15.000
4-methyl-2-pentanone	0.373	0.402	0.362	0.350	0.335	0.271	AVRG		0.34894997	12.760	15.000
Tetrachloroethene	0.430	0.491	0.422	0.403	0.452	0.408	AVRG		0.43431498	7.584	15.000
trans-1,3-Dichloropropene	0.448	0.469	0.442	0.453	0.449	0.419	AVRG		0.44679762	3.642	15.000
1,1,2-Trichloroethane	0.244	0.272	0.246	0.265	0.271	0.248	AVRG		0.25765935	5.185	15.000
Dibromochloromethane	0.436	0.484	0.454	0.489	0.528	0.500	AVRG		0.48179111	6.790	15.000
2-Hexanone	0.298	0.363	0.329	0.327	0.341	0.284	AVRG		0.32374973	8.949	15.000
Chlorobenzene	1.056	1.042	0.973	0.998	1.084	1.014	AVRG		1.02802546	3.958	15.000
Ethylbenzene	0.504	0.528	0.479	0.501	0.538	0.489	AVRG		0.50666682	4.442	15.000
Xylenes (total)							AVRG				0.000
m+p-Xylenes	0.617	0.626	0.593	0.627	0.665	0.576	AVRG		0.61721399	4.982	15.000
o-Xylene	0.588	0.616	0.569	0.620	0.663	0.622	AVRG		0.61283754	5.258	15.000
Styrene	0.947	1.065	1.008	1.086	1.155	1.054	AVRG		1.05247671	6.720	15.000
Bromoform	0.252	0.323	0.321	0.348	0.386	0.368	AVRG		0.33300018	14.143	15.000
1,1,2,2-Tetrachloroethane	0.852	0.879	0.794	0.851	0.850	0.866	AVRG		0.84868812	3.406	15.000
P-Bromofluorobenzene	0.556	0.493	0.410	0.390	0.437	0.408	AVRG		0.44879817	14.167	15.000
Toluene-D8	1.282	1.116	1.015	1.024	1.092	1.010	AVRG		1.08967996	9.532	15.000
1,2-Dichloroethane-D4	5624	23926	85390	198240	447700	914700	LINR	4.086e-004	1.75521825	0.99958	0.99000
Dibromofluoromethane	0.744	0.669	0.596	0.584	0.645	0.653	AVRG		0.64870556	8.816	15.000

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NSA SOUTH MILLINGTON SDG No.: NSA-058

Instrument ID: GCMS-F Calibration Date(s): 02/24/09 02/24/09

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1149 1424

Average %RSD test result.

Calculate Average %RSD: 7.739955425
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI VOA

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Instrument ID: GCMS-F Calibration Date: 02/23/09 Time: 0950

Lab File ID: F3592 Init. Calib. Date(s): 02/10/09 02/10/09

Init. Calib. Times: 1146 1421

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

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Chloromethane	0.8310000	0.5937900	0.5937900	0.1	-28.54		AVRG
Vinyl chloride	0.6940000	0.5678900	0.5678900	0.01	-18.17	20.00	AVRG
Bromomethane	50.671000	50.000000	0.3300000	0.01	1.34		LINR
Chloroethane	55.482000	50.000000	0.2429100	0.01	10.96		2RDR
1,1-Dichloroethene	0.3750000	0.3543300	0.3543300	0.1	-5.51	20.00	AVRG
Carbon Disulfide	1.3060000	1.2447000	1.2447000	0.01	-4.69		AVRG
Methylene Chloride	51.736000	50.000000	0.4549900	0.01	3.47		LINR
Acetone	0.1110000	0.1110900	0.1110900	0.01	0.08		AVRG
trans-1,2-Dichloroethene	0.4170000	0.3969100	0.3969100	0.01	-4.82		AVRG
1,1-Dichloroethane	1.0060000	1.0574000	1.0574000	0.1	5.11		AVRG
cis-1,2-Dichloroethene	0.6040000	0.5748400	0.5748400	0.01	-4.83		AVRG
Chloroform	0.9160000	0.8932500	0.8932500	0.01	-2.48	20.00	AVRG
Carbon Tetrachloride	0.4600000	0.4282200	0.4282200	0.01	-6.91		AVRG
1,1,1-Trichloroethane	0.7170000	0.6952700	0.6952700	0.01	-3.03		AVRG
2-Butanone	0.2400000	0.2666400	0.2666400	0.01	11.10		AVRG
Benzene	1.3850000	1.3375000	1.3375000	0.01	-3.43		AVRG
1,2-Dichloroethane	0.4630000	0.4818000	0.4818000	0.01	4.06		AVRG
Trichloroethene	0.3640000	0.3435300	0.3435300	0.01	-5.62		AVRG
1,2-Dichloropropane	0.3750000	0.3801400	0.3801400	0.01	1.37	20.00	AVRG
Bromodichloromethane	0.4980000	0.4874800	0.4874800	0.01	-2.11		AVRG
cis-1,3-dichloropropene	0.5810000	0.5698700	0.5698700	0.01	-1.92		AVRG
Toluene	0.7790000	0.7701800	0.7701800	0.01	-1.13	20.00	AVRG
4-methyl-2-pentanone	0.3200000	0.3523200	0.3523200	0.01	10.10		AVRG
Tetrachloroethene	0.4310000	0.3730100	0.3730100	0.01	-13.46		AVRG
trans-1,3-Dichloropropene	0.4640000	0.4750600	0.4750600	0.01	2.38		AVRG
1,1,2-Trichloroethane	0.2660000	0.2736700	0.2736700	0.01	2.88		AVRG
Dibromochloromethane	0.5260000	0.4765600	0.4765600	0.01	-9.40		AVRG
2-Hexanone	0.2880000	0.2976400	0.2976400	0.01	3.35		AVRG
Chlorobenzene	1.0500000	1.0014000	1.0014000	0.3	-4.63		AVRG

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Instrument ID: GCMS-F Calibration Date: 02/23/09 Time: 0950

Lab File ID: F3592 Init. Calib. Date(s): 02/10/09 02/10/09

Init. Calib. Times: 1146 1421

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

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Ethylbenzene	0.5230000	0.5078000	0.5078000	0.01	-2.91	20.00	AVRG	
Xylenes (total)	0.0000000	0.5881600	0.5881600	0.01	0.00		AVRG	<-
m+p-Xylenes	0.6060000	0.5954600	0.5954600	0.01	-1.74		AVRG	
o-Xylene	0.6260000	0.5735800	0.5735800	0.01	-8.37		AVRG	
Styrene	1.0850000	1.0199000	1.0199000	0.01	-6.00		AVRG	
Bromoform	0.3760000	0.3362800	0.3362800	0.1	-10.56		AVRG	
1,1,2,2-Tetrachloroethane	0.8570000	0.8651300	0.8651300	0.3	0.95		AVRG	
P-Bromofluorobenzene	0.4430000	0.3718900	0.3718900	0.01	-16.05		AVRG	
Toluene-D8	1.0760000	1.0033000	1.0033000	0.01	-6.76		AVRG	
1,2-Dichloroethane-D4	0.5410000	0.4834900	0.4834900	0.01	-10.63		AVRG	
Dibromofluoromethane	0.6010000	0.5435000	0.5435000	0.01	-9.57		AVRG	

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Instrument ID: GCMS-F Calibration Date: 02/25/09 Time: 0942

Lab File ID: F3629 Init. Calib. Date(s): 02/24/09 02/24/09

Init. Calib. Times: 1149 1424

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

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Chloromethane	0.9700000	1.0020000	1.0020000	0.1	3.30		AVRG
Vinyl chloride	0.7830000	0.8168500	0.8168500	0.01	4.32	20.00	AVRG
Bromomethane	0.4580000	0.4561600	0.4561600	0.01	-0.40		AVRG
Chloroethane	63.272000	50.000000	0.3004800	0.01	26.54		LINR
1,1-Dichloroethene	0.4050000	0.3953600	0.3953600	0.1	-2.38	20.00	AVRG
Carbon Disulfide	1.4460000	1.4080000	1.4080000	0.01	-2.63		AVRG
Methylene Chloride	48.165000	50.000000	0.4832000	0.01	-3.67		LINR
Acetone	0.1250000	0.1019600	0.1019600	0.01	-18.43		AVRG
trans-1,2-Dichloroethene	0.4600000	0.4507000	0.4507000	0.01	-2.02		AVRG
1,1-Dichloroethane	1.0690000	1.0778000	1.0778000	0.1	0.82		AVRG
cis-1,2-Dichloroethene	0.5900000	0.6114000	0.6114000	0.01	3.63		AVRG
Chloroform	0.9440000	0.9252700	0.9252700	0.01	-1.98	20.00	AVRG
Carbon Tetrachloride	0.4160000	0.4480700	0.4480700	0.01	7.71		AVRG
1,1,1-Trichloroethane	0.7120000	0.7283200	0.7283200	0.01	2.29		AVRG
2-Butanone	0.2850000	0.2396100	0.2396100	0.01	-15.93		AVRG
Benzene	1.3520000	1.4198000	1.4198000	0.01	5.01		AVRG
1,2-Dichloroethane	0.4870000	0.4881900	0.4881900	0.01	0.24		AVRG
Trichloroethene	0.3510000	0.3640600	0.3640600	0.01	3.72		AVRG
1,2-Dichloropropane	0.3860000	0.3997700	0.3997700	0.01	3.57	20.00	AVRG
Bromodichloromethane	0.4820000	0.5115100	0.5115100	0.01	6.12		AVRG
cis-1,3-dichloropropene	0.5600000	0.6283400	0.6283400	0.01	12.20		AVRG
Toluene	0.7750000	0.8080300	0.8080300	0.01	4.26	20.00	AVRG
4-methyl-2-pentanone	0.3490000	0.3323200	0.3323200	0.01	-4.78		AVRG
Tetrachloroethene	0.4340000	0.3915800	0.3915800	0.01	-9.77		AVRG
trans-1,3-Dichloropropene	0.4470000	0.4785600	0.4785600	0.01	7.06		AVRG
1,1,2-Trichloroethane	0.2580000	0.2597400	0.2597400	0.01	0.67		AVRG
Dibromochloromethane	0.4820000	0.4807400	0.4807400	0.01	-0.26		AVRG
2-Hexanone	0.3240000	0.2592600	0.2592600	0.01	-19.98		AVRG
Chlorobenzene	1.0280000	0.9943300	0.9943300	0.3	-3.28		AVRG

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Instrument ID: GCMS-F Calibration Date: 02/25/09 Time: 0942

Lab File ID: F3629 Init. Calib. Date(s): 02/24/09 02/24/09

Init. Calib. Times: 1149 1424

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

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Ethylbenzene	0.5060000	0.4902300	0.4902300	0.01	-3.12	20.00	AVRG	
Xylenes (total)	0.0000000	0.5936400	0.5936400	0.01	0.00		AVRG	<-
m+p-Xylenes	0.6170000	0.5992600	0.5992600	0.01	-2.88		AVRG	
o-Xylene	0.6130000	0.5824000	0.5824000	0.01	-4.99		AVRG	
Styrene	1.0520000	1.0279000	1.0279000	0.01	-2.29		AVRG	
Bromoform	0.3330000	0.3238800	0.3238800	0.1	-2.74		AVRG	
1,1,2,2-Tetrachloroethane	0.8490000	0.8247400	0.8247400	0.3	-2.86		AVRG	
P-Bromofluorobenzene	0.4490000	0.4101800	0.4101800	0.01	-8.64		AVRG	
Toluene-D8	1.0900000	1.0227000	1.0227000	0.01	-6.17		AVRG	
1,2-Dichloroethane-D4	41.258000	50.000000	0.4698800	0.01	-17.48		LINR	
Dibromofluoromethane	0.6480000	0.5384000	0.5384000	0.01	-16.91		AVRG	

FORM VII PEST

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID (Standard): F3592 Date Analyzed: 02/23/09

Instrument ID: GCMS-F Time Analyzed: 0950

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1(PFB) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD	430806	7.45	612810	8.52	497287	12.11
UPPER LIMIT	861612	7.95	1225620	9.02	994574	12.61
LOWER LIMIT	215403	6.95	306405	8.02	248644	11.61

	CLIENT SAMPLE ID	LAB SAMPLE ID						
01	WG61123-LCS	WG61123-1	420132	7.45	598718	8.51	467941	12.11
02	WG61123-BLANK	WG61123-2	369995	7.46	551144	8.52	444541	12.11
03	039G02LF15	SC0850-1	326917	7.43	503100	8.50	410836	12.10
04	039G12LF23	SC0850-3	326687	7.43	512805	8.50	407415	12.10
05	039E21809	SC0850-4	317491	7.43	491742	8.49	403768	12.10
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-D5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID (Standard): F3592 Date Analyzed: 02/23/09

Instrument ID: GCMS-F Time Analyzed: 0950

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4(DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	251894	15.18				
UPPER LIMIT	503788	15.68				
LOWER LIMIT	125947	14.68				

	CLIENT SAMPLE ID	LAB SAMPLE ID						
01	WG61123-LCS	WG61123-1	253908	15.18				
02	WG61123-BLANK	WG61123-2	221144	15.19				
03	039G02LF15	SC0850-1	195463	15.17				
04	039G12LF23	SC0850-3	199328	15.17				
05	039E21809	SC0850-4	201621	15.17				
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS4 (DCB) = 1,4-Dichlorobenzene-D4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID (Standard): F3629 Date Analyzed: 02/25/09

Instrument ID: GCMS-F Time Analyzed: 0942

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1(PFB) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD	431663	7.43	592763	8.49	492316	12.10
UPPER LIMIT	863326	7.93	1185526	8.99	984632	12.60
LOWER LIMIT	215832	6.93	296382	7.99	246158	11.60

	CLIENT SAMPLE ID	LAB SAMPLE ID						
01	WG61203-LCS	WG61203-1	417617	7.41	594711	8.48	492645	12.08
02	WG61203-BLANK	WG61203-2	373733	7.41	546634	8.48	451501	12.08
03	039G13LF22	SC0850-2RA	354731	7.41	514164	8.48	439275	12.09
04	039G10LF22	SC0850-5RA	338286	7.40	506902	8.48	421825	12.09
05	039F021809	SC0850-6RA	336386	7.40	507819	8.48	413159	12.08
06	039G03LF15	SC0850-7RA	326883	7.41	498428	8.47	411217	12.09
07	039T021909	SC0850-8RA	327046	7.41	504179	8.48	407257	12.09
08	039G04LF22	SC0850-9RA	332454	7.41	503749	8.48	414629	12.08
09	039H04LF22	SC0850-10RA	320509	7.41	481249	8.48	394742	12.08
10	039G22LF15	SC0850-11RA	324742	7.41	480867	8.48	414482	12.08
11	039G13LF22MS	WG61203-3	323655	7.41	484171	8.48	406014	12.09
12	039G13LF22MSD	WG61203-4	339507	7.41	502551	8.48	415724	12.09
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-D5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID (Standard): F3629 Date Analyzed: 02/25/09

Instrument ID: GCMS-F Time Analyzed: 0942

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS4(DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		247172	15.16				
UPPER LIMIT		494344	15.66				
LOWER LIMIT		123586	14.66				
CLIENT SAMPLE ID	LAB SAMPLE ID						
01 WG61203-LCS	WG61203-1	245893	15.16				
02 WG61203-BLANK	WG61203-2	231795	15.16				
03 039G13LF22	SC0850-2RA	218262	15.16				
04 039G10LF22	SC0850-5RA	206392	15.15				
05 039F021809	SC0850-6RA	208898	15.15				
06 039G03LF15	SC0850-7RA	210692	15.15				
07 039T021909	SC0850-8RA	213146	15.16				
08 039G04LF22	SC0850-9RA	204874	15.16				
09 039H04LF22	SC0850-10RA	203041	15.16				
10 039G22LF15	SC0850-11RA	207956	15.16				
11 039G13LF22MS	WG61203-3	218950	15.16				
12 039G13LF22MSD	WG61203-4	219857	15.16				
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (DCB) = 1,4-Dichlorobenzene-D4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G02LF15

Matrix: WATER **SDG Name:** NSA-058

Percent Solids: 0.00 **Lab Sample ID:** SC0850-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	34800			P	1	100	9.00

Bottle ID: F

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G13LF22

Matrix: WATER **SDG Name:** NSA-058

Percent Solids: 0.00 **Lab Sample ID:** SC0850-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	41.9	B		P	1	100	9.00

Bottle ID: L

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G12LF23

Matrix: WATER **SDG Name:** NSA-058

Percent Solids: 0.00 **Lab Sample ID:** SC0850-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	2000			P	1	100	9.00

Bottle ID: F

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G10LF22

Matrix: WATER **SDG Name:** NSA-058

Percent Solids: 0.00 **Lab Sample ID:** SC0850-005

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	717			P	1	100	9.00

Bottle ID: F

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G03LF15

Matrix: WATER **SDG Name:** NSA-058

Percent Solids: 0.00 **Lab Sample ID:** SC0850-007

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	13400			P	1	100	9.00

Bottle ID: F

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G04LF22

Matrix: WATER **SDG Name:** NSA-058

Percent Solids: 0.00 **Lab Sample ID:** SC0850-009

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	18000			P	1	100	9.00

Bottle ID: D

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G22LF15

Matrix: WATER **SDG Name:** NSA-058

Percent Solids: 0.00 **Lab Sample ID:** SC0850-011

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	25200			P	1	100	9.00

Bottle ID: F

Comments:

FORM I - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: ICV

File: IZB24A Feb 24, 2009 16:34

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	10290.00	102.9
CALCIUM	10000.0	9669.00	96.7
IRON	10000.0	9998.00	100.0
MAGNESIUM	10000.0	10200.00	102.0

SAMPLE: CCV

File: IZB24A Feb 24, 2009 17:00

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12600.00	100.8
CALCIUM	12500.0	12720.00	101.8
IRON	12500.0	12730.00	101.8
MAGNESIUM	12500.0	13010.00	104.1

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: CCV

File: IZB24A Feb 24, 2009 18:04

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12630.00	101.0
CALCIUM	12500.0	12660.00	101.3
IRON	12500.0	12580.00	100.6
MAGNESIUM	12500.0	12910.00	103.3

SAMPLE: CCV

File: IZB24A Feb 24, 2009 19:06

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12600.00	100.8
CALCIUM	12500.0	12860.00	102.9
IRON	12500.0	12630.00	101.0
MAGNESIUM	12500.0	12880.00	103.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: CCV

File: IZB24A Feb 24, 2009 20:09

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12630.00	101.0
CALCIUM	12500.0	12970.00	103.8
IRON	12500.0	12680.00	101.4
MAGNESIUM	12500.0	12890.00	103.1

SAMPLE: CCV

File: IZB24A Feb 24, 2009 21:12

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12600.00	100.8
CALCIUM	12500.0	13090.00	104.7
IRON	12500.0	12700.00	101.6
MAGNESIUM	12500.0	12770.00	102.2

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: CCV

File: IZB24A Feb 24, 2009 22:15

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12610.00	100.9
CALCIUM	12500.0	13050.00	104.4
IRON	12500.0	12640.00	101.1
MAGNESIUM	12500.0	12790.00	102.3

SAMPLE: CCV

File: IZB24A Feb 24, 2009 23:18

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12570.00	100.6
CALCIUM	12500.0	13190.00	105.5
IRON	12500.0	12680.00	101.4
MAGNESIUM	12500.0	12720.00	101.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: CCV

File: IZB24A Feb 25, 2009 0:22

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12600.00	100.8
CALCIUM	12500.0	12810.00	102.5
IRON	12500.0	12360.00	98.9
MAGNESIUM	12500.0	12650.00	101.2

SAMPLE: CCV

File: IZB24A Feb 25, 2009 1:25

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12740.00	101.9
CALCIUM	12500.0	12800.00	102.4
IRON	12500.0	12290.00	98.3
MAGNESIUM	12500.0	12750.00	102.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: CCV

File: IZB24A Feb 25, 2009 1:36

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12670.00	101.4
CALCIUM	12500.0	12710.00	101.7
IRON	12500.0	12260.00	98.1
MAGNESIUM	12500.0	12650.00	101.2

SAMPLE: CCV

File: IZB24A Feb 25, 2009 2:02

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12650.00	101.2
CALCIUM	12500.0	12580.00	100.6
IRON	12500.0	12150.00	97.2
MAGNESIUM	12500.0	12600.00	100.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: PQL

File: IZB24A Feb 24, 2009 16:44

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	301.40	100.5
CALCIUM	50.0	43.39	86.8
IRON	100.0	104.90	104.9
MAGNESIUM	50.0	53.27	106.5

SAMPLE: PQL

File: IZB24A Feb 24, 2009 20:55

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	303.10	101.0
CALCIUM	50.0	46.42	92.8
IRON	100.0	112.20	112.2
MAGNESIUM	50.0	50.48	101.0

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: PQL

File: IZB24A Feb 25, 2009 01:46

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	303.50	101.2
CALCIUM	50.0	56.84	113.7
IRON	100.0	99.09	99.1
MAGNESIUM	50.0	53.33	106.7

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: ICB

File: IZB24A Feb 24, 2009 16:39

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZB24A Feb 24, 2009 17:05

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZB24A Feb 24, 2009 18:09

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	10.28	B
IRON	6.80	U
MAGNESIUM	10.00	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: CCB

File: IZB24A Feb 24, 2009 19:12

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZB24A Feb 24, 2009 20:14

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZB24A Feb 24, 2009 21:17

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	7.60	B
MAGNESIUM	10.00	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: CCB

File: IZB24A Feb 24, 2009 22:20

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZB24A Feb 24, 2009 23:23

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZB24A Feb 25, 2009 0:27

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	8.61	B
MAGNESIUM	10.37	B

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: CCB

File: IZB24A Feb 25, 2009 1:31

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZB24A Feb 25, 2009 1:41

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZB24A Feb 25, 2009 2:07

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	10.29	B
IRON	8.42	B
MAGNESIUM	10.00	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWZB24ICW0

Matrix: WATER **SDG Name:** NSA-058

QC Batch ID: ZB24ICW0

Concentration Units : ug/L

Analyte	RESULT	C
IRON	12.470	B

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: ICSA

File: IZB24A Feb 24, 2009 16:49

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	524000	104.8
CALCIUM	500000	478500	95.7
IRON	200000	196600	98.3
MAGNESIUM	500000	516600	103.3

SAMPLE: ICSAB

File: IZB24A Feb 24, 2009 16:55

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	525800	105.2
CALCIUM	500000	479900	96.0
IRON	200000	197500	98.8
MAGNESIUM	500000	512800	102.6

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: ICSA

File: IZB24A Feb 24, 2009 21:01

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	520100	104.0
CALCIUM	500000	495900	99.2
IRON	200000	196700	98.4
MAGNESIUM	500000	512400	102.5

SAMPLE: ICSAB

File: IZB24A Feb 24, 2009 21:06

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	521700	104.3
CALCIUM	500000	495300	99.1
IRON	200000	196300	98.2
MAGNESIUM	500000	503800	100.8

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: ICSA

File: IZB24A Feb 25, 2009 01:51

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	528300	105.7
CALCIUM	500000	489700	97.9
IRON	200000	190300	95.2
MAGNESIUM	500000	499200	99.8

SAMPLE: ICSAB

File: IZB24A Feb 25, 2009 01:57

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	527400	105.5
CALCIUM	500000	486900	97.4
IRON	200000	189400	94.7
MAGNESIUM	500000	499200	99.8

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWZB24ICW0

Matrix: WATER **SDG Name:** NSA-058

QC Batch ID: ZB24ICW0

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
IRON	1000.0	1097.00	109.7	80	120

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 8/13/2008

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ALUMINUM	300	19.00	P
CALCIUM	50	8.90	P
IRON	100	6.80	P
MAGNESIUM	50	10.00	P

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 2/8/2008

Analyte	MDL	Units	M	EPA Prep./Anal. Method
IRON	9.00	ug/L	P	SW846 3010A / SW846 6010B

ICP INTERELEMENT CORRECTION FACTORS

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Instrument Name: THERMO ICAP 6500 **Date:** 10/9/2008

Instrument ID: I

Analyte	Wavelength (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Co	Cr	Cu	Mo	Ni	Ti	V
ALUMINUM	396.15	0.0	0.0002050	0.0	0.0	0.0	0.0	0.0	0.0475580	0.0	0.0	0.0
ANTIMONY	206.88	0.0000080	0.0	0.0000260	0.0	0.0	0.0095150	0.0	-0.0026030	-0.0003890	0.0	-0.0019060
ARSENIC	189.04	-0.0000010	0.0	-0.0001440	0.0	0.0	0.0002520	0.0	0.0004800	0.0	0.0	0.0
BARIUM	455.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	313.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0004960	0.0000360
BORON	208.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0044509	0.0	0.0	0.0
CADMIUM	226.50	0.0	0.0	0.0000700	0.0	-0.0000220	0.0	0.0	0.0	-0.0000800	0.0000450	0.0
CALCIUM	315.89	0.0	0.0	0.0	0.0	0.0010540	-0.0002580	0.0	0.0	0.0	0.0	0.0
CHROMIUM	267.72	0.0	0.0	-0.0000100	0.0	0.0	0.0	0.0	-0.0000210	0.0	0.0	0.0000720
COBALT	228.62	0.0	0.0	0.0000120	0.0	0.0	0.0000230	0.0	0.0000180	0.0002140	0.0020610	0.0
COPPER	327.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0006350	0.0002980
IRON	259.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0005620	0.0	0.0	0.0
LEAD	220.35	-0.0001090	0.0	0.0000360	0.0	-0.0001570	0.0	0.0002330	-0.0011960	0.0003810	-0.0002030	0.0
MAGNESIUM	285.21	0.0	0.0	-0.0000080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MANGANESE	257.61	-0.0000090	0.0	-0.0000200	0.0000260	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	202.03	0.0	0.0	0.0	0.0	0.0	0.0001080	0.0	0.0	0.0	0.0	-0.0001440
NICKEL	231.60	0.0	0.0	-0.0000450	0.0	0.0002300	0.0	0.0	0.0024100	0.0	0.0	0.0
POTASSIUM	766.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	196.09	0.0000070	0.0	-0.0001320	0.0	-0.0004270	0.0	0.0	0.0	0.0	0.0	0.0000290
SILVER	328.07	0.0	0.0	-0.0002180	0.0	0.0	0.0	0.0	0.0	0.0	-0.0001650	0.0
SODIUM	589.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	190.86	0.0000050	0.0	-0.0000030	0.0	0.0054870	0.0	-0.0000030	-0.0001640	0.0	-0.0011620	-0.0051480
TIN	189.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	334.90	0.0	0.0	0.0	0.0	0.0	0.0001290	0.0	0.0015460	0.0	0.0	0.0
VANADIUM	292.40	0.0	0.0	0.0000260	0.0	0.0	-0.0029690	0.0	-0.0080400	0.0	0.0010400	0.0
ZINC	206.20	0.0	0.0	0.0	0.0	0.0	-0.0005230	0.0	0.0	0.0	0.0	0.0

FORM XI - IN

Sample Data Summary A0000083

ICP LINEAR RANGES

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 1/26/2009

Concentration Units: ug/L

Analyte	Integration Time (sec)	Linear Range	M
ALUMINUM	5.00	1000000	P
CALCIUM	5.00	1000000	P
IRON	5.00	400000	P
MAGNESIUM	5.00	500000	P

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** ZB24ICW0

Matrix: WATER **SDG Name:** NSA-058

Method: P **Prep Date:** 02/24/2009

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWZB24ICW0	LCSWZB24ICW0	0.05	0.05
PBWZB24ICW0	PBWZB24ICW0	0.05	0.05
039G02LF15	SC0850-001	0.05	0.05
039G13LF22	SC0850-002	0.05	0.05
039G12LF23	SC0850-003	0.05	0.05
039G10LF22	SC0850-005	0.05	0.05
039G03LF15	SC0850-007	0.05	0.05
039G04LF22	SC0850-009	0.05	0.05
039G22LF15	SC0850-011	0.05	0.05

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Instrument ID: THERMO ICAP 6500 **File Name:** IZB24A

Date: 2/24/2009 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements		
Blank		1	16:23	AL	CA	FE	MG
Std 1		1	16:28	AL	CA	FE	MG
ICV		1	16:34	AL	CA	FE	MG
ICB		1	16:39	AL	CA	FE	MG
PQL		1	16:44	AL	CA	FE	MG
ICSA		1	16:49	AL	CA	FE	MG
ICSAB		1	16:55	AL	CA	FE	MG
CCV		1	17:00	AL	CA	FE	MG
CCB		1	17:05	AL	CA	FE	MG
ZZZZZZ		10	17:11				
ZZZZZZ		50	17:16				
ZZZZZZ		10	17:21				
ZZZZZZ		10	17:27				
ZZZZZZ		10	17:32				
ZZZZZZ		1	17:37				
ZZZZZZ		1	17:42				
ZZZZZZ		1	17:48				
ZZZZZZ		1	17:53				
ZZZZZZ		1	17:59				
CCV		1	18:04	AL	CA	FE	MG
CCB		1	18:09	AL	CA	FE	MG
ZZZZZZ		1	18:14				
ZZZZZZ		1	18:20				
ZZZZZZ		1	18:25				
ZZZZZZ		1	18:30				
ZZZZZZ		1	18:35				
ZZZZZZ		1	18:40				
ZZZZZZ		1	18:46				
ZZZZZZ		1	18:51				
ZZZZZZ		1	18:56				
ZZZZZZ		1	19:01				
CCV		1	19:06	AL	CA	FE	MG
CCB		1	19:12	AL	CA	FE	MG
ZZZZZZ		1	19:17				
ZZZZZZ		1	19:22				
ZZZZZZ		1	19:27				
ZZZZZZ		1	19:33				
ZZZZZZ		1	19:38				
ZZZZZZ		1	19:43				
ZZZZZZ		5	19:48				
ZZZZZZ		1	19:53				
ZZZZZZ		1	19:59				
ZZZZZZ		1	20:04				
CCV		1	20:09	AL	CA	FE	MG
CCB		1	20:14	AL	CA	FE	MG
ZZZZZZ		1	20:19				
ZZZZZZ		1	20:24				
ZZZZZZ		5	20:30				
ZZZZZZ		1	20:35				
ZZZZZZ		1	20:40				

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Instrument ID: THERMO ICAP 6500 **File Name:** IZB24A

Date: 2/24/2009 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements			
ZZZZZZ		1	20:45				
ZZZZZZ		1	20:50				
PQL		1	20:55	AL	CA	FE	MG
ICSA		1	21:01	AL	CA	FE	MG
ICSAB		1	21:06	AL	CA	FE	MG
CCV		1	21:12	AL	CA	FE	MG
CCB		1	21:17	AL	CA	FE	MG
ZZZZZZ		1	21:22				
PBWZB24ICW0		1	21:27			FE	
LCSWZB24ICW0		1	21:33			FE	
ZZZZZZ		5	21:38				
ZZZZZZ		5	21:43				
ZZZZZZ		1	21:48				
ZZZZZZ		1	21:54				
SC0850-001	039G02LF15	1	21:59			FE	
SC0850-002	039G13LF22	1	22:04			FE	
SC0850-003	039G12LF23	1	22:09			FE	
CCV		1	22:15	AL	CA	FE	MG
CCB		1	22:20	AL	CA	FE	MG
SC0850-005	039G10LF22	1	22:25			FE	
SC0850-007	039G03LF15	1	22:30			FE	
SC0850-009	039G04LF22	1	22:36			FE	
SC0850-011	039G22LF15	1	22:41			FE	
ZZZZZZ		5	22:46				
ZZZZZZ		5	22:51				
ZZZZZZ		1	22:57				
ZZZZZZ		1	23:02				
ZZZZZZ		1	23:07				
ZZZZZZ		1	23:13				
CCV		1	23:18	AL	CA	FE	MG
CCB		1	23:23	AL	CA	FE	MG
ZZZZZZ		1	23:29				
ZZZZZZ		1	23:34				
ZZZZZZ		1	23:39				
ZZZZZZ		1	23:45				
ZZZZZZ		1	23:50				
ZZZZZZ		1	23:56				
ZZZZZZ		1	0:01				
ZZZZZZ		1	0:06				
ZZZZZZ		1	0:11				
ZZZZZZ		1	0:17				
CCV		1	0:22	AL	CA	FE	MG
CCB		1	0:27	AL	CA	FE	MG
ZZZZZZ		1	0:33				
ZZZZZZ		1	0:38				
ZZZZZZ		1	0:43				
ZZZZZZ		1	0:49				
ZZZZZZ		5	0:54				
ZZZZZZ		1	0:59				
ZZZZZZ		1	1:05				
ZZZZZZ		1	1:10				

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Instrument ID: THERMO ICAP 6500 **File Name:** IZB24A

Date: 2/25/2009 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements			
ZZZZZZ		1	1:15				
ZZZZZZ		25	1:20				
CCV		1	1:25	AL	CA	FE	MG
CCB		1	1:31	AL	CA	FE	MG
CCV		1	1:36	AL	CA	FE	MG
CCB		1	1:41	AL	CA	FE	MG
PQL		1	1:46	AL	CA	FE	MG
ICSA		1	1:51	AL	CA	FE	MG
ICSAB		1	1:57	AL	CA	FE	MG
CCV		1	2:02	AL	CA	FE	MG
CCB		1	2:07	AL	CA	FE	MG

FORM XIV - IN

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: SC0850-1
Report Date: 02-MAR-09
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-058

Sample Description	Matrix	Date Sampled	Date Received
039G02LF15	AQ	18-FEB-09	20-FEB-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	J0.030 mg/L	.05	EPA 353.2	WG61031	20-FEB-09 11:29:44	N/A	N/A	AMB	
Total Organic Carbon	1.7 mg/L	1	EPA 415.1	WG61237	26-FEB-09 13:00:28	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: SC0850-2
Report Date: 02-MAR-09
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-058

Sample Description	Matrix	Date Sampled	Date Received
039G13LF22	AQ	18-FEB-09	20-FEB-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	1.6 mg/L	.05	EPA 353.2	WG61031	20-FEB-09 11:34:07	N/A	N/A	AMB	
Total Organic Carbon	J0.43 mg/L	1	EPA 415.1	WG61237	26-FEB-09 13:12:21	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: SC0850-3
Report Date: 02-MAR-09
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-058

Sample Description	Matrix	Date Sampled	Date Received
039G12LF23	AQ	18-FEB-09	20-FEB-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	0.050 mg/L	.05	EPA 353.2	WG61031	20-FEB-09 11:33:01	N/A	N/A	AMB	
Total Organic Carbon	J0.41 mg/L	1	EPA 415.1	WG61237	26-FEB-09 13:38:18	N/A	N/A	CP	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
sales@katahdinlab.com

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: SC0850-5
Report Date: 02-MAR-09
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-058

Sample Description	Matrix	Date Sampled	Date Received
039G10LF22	AQ	18-FEB-09	20-FEB-09

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	WG61031	20-FEB-09 11:30:50	N/A	N/A	AMB	
Total Organic Carbon	J0.33 mg/L	1	EPA 415.1	WG61237	26-FEB-09 13:49:43	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: SC0850-7
Report Date: 02-MAR-09
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-058

Sample Description	Matrix	Date Sampled	Date Received
039G03LF15	AQ	18-FEB-09	20-FEB-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	J0.032 mg/L	.05	EPA 353.2	WG61031	20-FEB-09 11:31:55	N/A	N/A	AMB	
Total Organic Carbon	1.3 mg/L	1	EPA 415.1	WG61237	26-FEB-09 14:01:30	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: SC0850-9
Report Date: 02-MAR-09
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-058

Sample Description	Matrix	Date Sampled	Date Received
039G04LF22	AQ	19-FEB-09	20-FEB-09

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	WG61031	20-FEB-09 11:35:13	N/A	N/A	AMB	
Total Organic Carbon	1.5 mg/L	1	EPA 415.1	WG61237	26-FEB-09 14:13:32	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: SC0850-11
Report Date: 02-MAR-09
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-058

Sample Description	Matrix	Date Sampled	Date Received
039G22LF15	AQ	19-FEB-09	20-FEB-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	J0.026 mg/L	.05	EPA 353.2	WG61031	20-FEB-09 11:37:25	N/A	N/A	AMB	
Total Organic Carbon	1.6 mg/L	1	EPA 415.1	WG61237	26-FEB-09 14:25:39	N/A	N/A	CP	

Quality Control Report

Blank Sample Summary Report

Nitrate As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG61031	EPA 353.2	20-FEB-09	N/A	U 0.050 mg/L	.05 mg/L

Nitrite As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG61031	EPA 353.2	20-FEB-09	N/A	U 0.050 mg/L	.05 mg/L

Total Organic Carbon

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG61237	EPA 415.1	26-FEB-09	N/A	U 1.0 mg/L	1 mg/L

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Laboratory Control Sample Summary Report

Nitrate As N

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG61031-2	LCS	WG61031	20-FEB-09	N/A	mg/L	1	1.0	103	80-120	

Nitrite As N

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG61031-3	LCS	WG61031	20-FEB-09	N/A	mg/L	1	1.0	101	80-120	

Total Organic Carbon

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG61237-2	LCS	WG61237	26-FEB-09	N/A	mg/L	50	48.	96	80-120	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Matrix Spike Sample Summary Report

Nitrate As N

Matrix Spike Sample ID	Sample Type	Original Sample ID	QC Batch	Analysis Date	Result Units	Spike Amount	Sample Result	MS Result	Recovery (%)	Recovery Limit
WG61031-6	MS	SC0850-9	WG61031	20-FEB-09	mg/L	.5	U 0.050	0.47	93	75 - 125

Total Organic Carbon

Matrix Spike Sample ID	Sample Type	Original Sample ID	QC Batch	Analysis Date	Result Units	Spike Amount	Sample Result	MS Result	Recovery (%)	Recovery Limit
WG61237-5	MS	SC0850-2	WG61237	26-FEB-09	mg/L	100	J 0.43	110	114	75 - 125

SPECTRA TECH, INC.
NSA SOUTH MILLINGTON
SDG: NSA-058
SC0850

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-058
SC0850

Sample Receipt

The following samples were received on February 20, 2009 and were logged in under Katahdin Analytical Services work order number SC0850 for a hardcopy due date of March 12, 2009.

KATAHDIN Sample No.	SPECTRA TECH Sample Identification
SC0850-1	039G02LF15
SC0850-2	039G13LF22
SC0850-3	039G12LF23
SC0850-4	039E021809
SC0850-5	039G10LF22
SC0850-6	039F021809
SC0850-7	039G03LF15
SC0850-8	039T021909
SC0850-9	039G04LF22
SC0850-10	039H04LF22
SC0850-11	039G22LF15

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-058 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.

One or more target analytes may have been detected above the MDL in some method blanks. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

Samples SC0850-4, 6RA, 8RA, 9RA and 11RA, were manually integrated for one or more of the following target analytes: acetone, vinyl chloride and methylene chloride. 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-058 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 SC0850-(1-3, 5, 7, 9, and 11) were digested for ICP analysis on 02/24/09 (QC Batch ZB24ICW0) in accordance with USEPA Method 3010A.

ICP analyses of SDG NSA-058 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-058 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, with the following exceptions:

Katahdin Sample Nos. SC0850-(1, 2) were received by the laboratory near the end of the method-specified 48 hour holding time for nitrate. These samples were analyzed nitrate as soon as possible after receipt. The holding time exceedances are detailed in the following table.

Katahdin Sample Number	Sampling Date / Time	Analysis Date / Time	Holding Time Exceedance (HH:MM))
SC0850-1	02-18-09 / 10:15	02-20-09 / 11:29	01:14
SC0850-2	02-18-09 / 10:25	02-20-09 / 11:34	01:09

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
03-09-09

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:	Spectra Tech	KAS PM:	SMB	Sampled By:	Client
Project:		KIMS Entry By:	DD	Delivered By:	Fed Ex
KAS Work Order#:	SC0849 / SC0850	KIMS Review By:	[illegible]	Received By:	DD
SDG #:		Cooler: 1 of 1		Date/Time Rec.:	2/20/09 1010

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): 2.3
6. Samples received at < 6 °C w/o freezing? Ice or ice packs present? (Y) or N	✓				Cooler temp. (°C): (if no temp blank)
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?	~~✓~~ DD 3/3/09	✓			
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

Sample #039602LF15 Nitrate exceeds hold time

Sample # 039613LF22 Nitrate exceeds hold time

0000007

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

Client: Spectra Tech, Inc.
Contact: Ronnie Moody
Phone #: (865) 483-7210
Fax #: (865) 483-7[illegible]
Address: 132 Jefferson Ct.
City: Oak Ridge
State: TN
Zip Code: 37830
Purchase Order #:
Proj. Name / No.: NSA mid-South
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Ronnie Moody / Ronnie Moody
Copies To:

LAB USE ONLY
WORK ORDER #: SC0849
KATAHDIN PROJECT NUMBER: SC0850
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.	VOCs (Filt. ❒Y ☒N)	TPCs (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	F ❒Y
	Ø14TØ217Ø9	2/17/09/1110	W	2	2									
	Ø14G12LS15	2/17/09/1115	GW	3	3									
	Ø14G14LS15	2/17/09/1237	GW	7	3	2	1	1						
	Ø14GØ2LS25	2/17/09/1320	GW	7	3	2	1	1						
	Ø14GØ7LF19	2/17/09/1530	GW	3	3									
	Ø14GØ6LF19	2/17/09/1535	GW	3	3									
	Ø14G13LS15	2/17/09/1600	GW	3	3									
	Ø39GØ2LF15	2/18/09/1015	GW	7	3	2	1	1						
	Ø39G13LF22	2/18/09/1025	GW	7	3	2	1	1						
	Ø39H13LF22	2/18/09/1025	GW	6	6	(MS/MSD for Ø39G13LF22)								
	Ø39G12LF23	2/18/09/1225	GW	7	3	2	1	1						
	Ø39EØ218Ø9	2/18/09/1347	W	3	3									
	Ø39G1ØLF22	2/18/09/1350	GW	7	3	2	1	1						
	Ø39FØ218Ø9	2/18/09/1403	W	3	3									
	Ø39GØ3LF15	2/18/09/1425	GW	7	3	2	1	1						
	Ø39TØ219Ø9	2/19/09/Ø82Ø	W	2	2									

OMMENTS

2-20-09 1010

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Ronnie Moody	2/19/09 1430	[signature]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
					0000008

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF

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

Client: SpectraTech, Inc.
Contact:
Phone #: ( )
Fax #: ( )
Address: See page 1
City:
State:
Zip Code:
Purchase Order #:
Proj. Name / No.:
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Ronnie Moody / Ronnie Moody
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.	VOCs (Filt. ☐Y ☒N)	TOCs (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)
	Ø39GØ4LF22	2/19/09/0945	GW	7	3	2	1	1						
	Ø39HØ4LF22	2/19/09/0945	GW	3	3	~~2~~	~~1~~	~~1~~	Run 2/19/09					
	Ø39G22LF15	2/19/09/0955	GW	7	3	2	1	1						
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OMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
	2/20/09 1010	[signature]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
					0000009

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Feb. 25, 2009
12:34 PM

Login Number: SC0850

Account: SPECTRA001 NoWeb
Spectra Tech, Inc.

Project: SPECTRANSA001

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

Oak Ridge,TN 37830
pgentry@spectratechinc.com

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

Oak Ridge,TN 37830

Report CC Addresses:
Invoice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	Rpt to MDL
CHECK NO.	:	
CLIENT PO#	:	N62467-05-G
COOLER TEMPERATURE	:	2.3
DELIVERY SERVICES	:	Fed Ex
EDD FORMAT	:	KAS105QC-CSV
PM	:	SMB
PROJECT NAME	:	NSA South Millington
QC LEVEL	:	IV
REGULATORY LIST	:	NFESC
REPORT INSTRUCTIONS	:	Email SDP and SDS to Ron, Plus mail HC & CD w/ EDD to Ron also
SDG ID	:	NSA-058
SDG STATUS	:	Begin/End

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC0850-1	039G02LF15	18-FEB-09 10:15	20-FEB-09			12-MAR-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	20-FEB-09	125mL Plastic	1	
Aqueous	S	E415.1-TOC	18-MAR-09	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	17-AUG-09		1	
Aqueous	S	SW6010-IRON	17-AUG-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	04-MAR-09	40mL Vial+HCl	3	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC0850-2	039G13LF22	18-FEB-09 10:25	20-FEB-09			12-MAR-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	20-FEB-09	125mL Plastic	1	**MS/MSD on VOA only**
Aqueous	S	E415.1-TOC	18-MAR-09	40 mL Vial+H2SO4	2	
Aqueous	S	MS/MSD-VOA				
Aqueous	S	SW3010-PREP	17-AUG-09		1	
Aqueous	S	SW6010-IRON	17-AUG-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	04-MAR-09	40mL Vial+HCl	9	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC0850-3	039G12LF23	18-FEB-09 12:25	20-FEB-09			12-MAR-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	20-FEB-09	125mL Plastic	1	
Aqueous	S	E415.1-TOC	18-MAR-09	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	17-AUG-09		1	
Aqueous	S	SW6010-IRON	17-AUG-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	04-MAR-09	40mL Vial+HCl	3	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC0850-4	039E021809	18-FEB-09 13:47	20-FEB-09			12-MAR-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	04-MAR-09	40mL Vial+HCl	3	

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Feb. 25, 2009
12:34 PM

Login Number: SC0850

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
SC0850-5	039G10LF22	18-FEB-09 13:50	20-FEB-09			12-MAR-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	20-FEB-09	125mL Plastic	1	
Aqueous	S	E415.1-TOC	18-MAR-09	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	17-AUG-09		1	
Aqueous	S	SW6010-IRON	17-AUG-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	04-MAR-09	40mL Vial+HCl	3	

SC0850-6	039F021809	18-FEB-09 14:03	20-FEB-09	12-MAR-09

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	04-MAR-09	40mL Vial+HCl	3	

SC0850-7	039G03LF15	18-FEB-09 14:25	20-FEB-09	12-MAR-09

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	20-FEB-09	125mL Plastic	1	
Aqueous	S	E415.1-TOC	18-MAR-09	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	17-AUG-09		1	
Aqueous	S	SW6010-IRON	17-AUG-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	04-MAR-09	40mL Vial+HCl	3	

SC0850-8	039T021909	19-FEB-09 08:20	20-FEB-09	12-MAR-09

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	05-MAR-09	40mL Vial+HCl	2	

SC0850-9	039G04LF22	19-FEB-09 09:45	20-FEB-09	12-MAR-09

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	21-FEB-09	125mL Plastic	1	
Aqueous	S	E415.1-TOC	19-MAR-09	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	18-AUG-09		1	
Aqueous	S	SW6010-IRON	18-AUG-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	05-MAR-09	40mL Vial+HCl	3	

SC0850-10	039H04LF22	19-FEB-09 09:45	20-FEB-09	12-MAR-09

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	05-MAR-09	40mL Vial+HCl	3	

SC0850-11	039G22LF15	19-FEB-09 09:55	20-FEB-09	12-MAR-09

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	21-FEB-09	125mL Plastic	1	
Aqueous	S	E415.1-TOC	19-MAR-09	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	18-AUG-09		1	
Aqueous	S	SW6010-IRON	18-AUG-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	05-MAR-09	40mL Vial+HCl	3	

Total Samples: 11 ***Total Analyses: 51***

SAMPLE DATA SUMMARY PACKAGE

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

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)

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

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
TON	Threshold Odor Number
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: 02/18/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 23-FEB-2009 19:06
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-1
Client ID: 039G02LF15
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61123
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	J	0.6	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		3	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		89%				
2037-26-5	Toluene-D8		89%				
17060-07-0	1,2-Dichloroethane-D4		103%				
1868-53-7	Dibromofluoromethane		98%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G02LF15

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-058

Matrix: (soil/water) WATER

Lab Sample ID: SC0850-1

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

Lab File ID: F3609

Level: (low/med) LOW

Date Received: 02/20/09

% Moisture: not dec. _____

Date Analyzed: 02/23/09

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: 02/18/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 25-FEB-2009 12:42
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-2RA
Client ID: 039G13LF22
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
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		93%				
2037-26-5	Toluene-D8		93%				
17060-07-0	1,2-Dichloroethane-D4		88%				
1868-53-7	Dibromofluoromethane		84%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G13LF22

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Matrix: (soil/water) WATER Lab Sample ID: SC0850-2RA

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F3634

Level: (low/med) LOW Date Received: 02/20/09

% Moisture: not dec. _____ Date Analyzed: 02/25/09

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: 02/18/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 23-FEB-2009 19:38
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-3
Client ID: 039G12LF23
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61123
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		86%				
2037-26-5	Toluene-D8		89%				
17060-07-0	1,2-Dichloroethane-D4		103%				
1868-53-7	Dibromofluoromethane		97%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G12LF23

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Matrix: (soil/water) WATER Lab Sample ID: SC0850-3

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F3610

Level: (low/med) LOW Date Received: 02/20/09

% Moisture: not dec. _____ Date Analyzed: 02/23/09

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: 02/18/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 23-FEB-2009 20:09
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-4
Client ID: 039E21809
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61123
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		14	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		90%				
2037-26-5	Toluene-D8		90%				
17060-07-0	1,2-Dichloroethane-D4		103%				
1868-53-7	Dibromofluoromethane		98%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039E21809

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-058

Matrix: (soil/water) WATER

Lab Sample ID: SC0850-4

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

Lab File ID: F3611

Level: (low/med) LOW

Date Received: 02/20/09

% Moisture: not dec. _____

Date Analyzed: 02/23/09

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: 02/18/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 25-FEB-2009 13:13
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-5RA
Client ID: 039G10LF22
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
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	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		93%				
2037-26-5	Toluene-D8		92%				
17060-07-0	1,2-Dichloroethane-D4		88%				
1868-53-7	Dibromofluoromethane		87%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G10LF22

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-058

Matrix: (soil/water) WATER

Lab Sample ID: SC0850-5RA

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

Lab File ID: F3635

Level: (low/med) LOW

Date Received: 02/20/09

% Moisture: not dec. _____

Date Analyzed: 02/25/09

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: 02/18/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 25-FEB-2009 13:44
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-6RA
Client ID: 039F021809
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
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	0.5	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		90%				
2037-26-5	Toluene-D8		89%				
17060-07-0	1,2-Dichloroethane-D4		91%				
1868-53-7	Dibromofluoromethane		85%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039F021809

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Matrix: (soil/water) WATER Lab Sample ID: SC0850-6RA

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F3636

Level: (low/med) LOW Date Received: 02/20/09

% Moisture: not dec. _____ Date Analyzed: 02/25/09

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: 02/18/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 25-FEB-2009 14:15
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-7RA
Client ID: 039G03LF15
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
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	J	0.6	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	0.5	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	0.8	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene		43	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		150	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		50	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		93%				
2037-26-5	Toluene-D8		87%				
17060-07-0	1,2-Dichloroethane-D4		91%				
1868-53-7	Dibromofluoromethane		89%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G03LF15

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Matrix: (soil/water) WATER Lab Sample ID: SC0850-7RA

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F3637

Level: (low/med) LOW Date Received: 02/20/09

% Moisture: not dec. _____ Date Analyzed: 02/25/09

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: 02/19/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 25-FEB-2009 14:46
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-8RA
Client ID: 039T021909
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	J	0.4	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	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		90%				
2037-26-5	Toluene-D8		85%				
17060-07-0	1,2-Dichloroethane-D4		92%				
1868-53-7	Dibromofluoromethane		87%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039T021909

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-058

Matrix: (soil/water) WATER

Lab Sample ID: SC0850-8RA

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

Lab File ID: F3638

Level: (low/med) LOW

Date Received: 02/20/09

% Moisture: not dec. _____

Date Analyzed: 02/25/09

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: 02/19/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 25-FEB-2009 15:17
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-9RA
Client ID: 039G04LF22
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
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	J	0.3	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	J	0.6	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		170	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		91	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		90%				
2037-26-5	Toluene-D8		91%				
17060-07-0	1,2-Dichloroethane-D4		92%				
1868-53-7	Dibromofluoromethane		86%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G04LF22

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Matrix: (soil/water) WATER Lab Sample ID: SC0850-9RA

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F3639

Level: (low/med) LOW Date Received: 02/20/09

% Moisture: not dec. _____ Date Analyzed: 02/25/09

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: 02/19/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 25-FEB-2009 15:48
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-10RA
Client ID: 039H04LF22
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
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	0.8	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.6	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		160	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		87	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		93%				
2037-26-5	Toluene-D8		94%				
17060-07-0	1,2-Dichloroethane-D4		96%				
1868-53-7	Dibromofluoromethane		89%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039H04LF22

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-058

Matrix: (soil/water) WATER

Lab Sample ID: SC0850-10RA

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

Lab File ID: F3640

Level: (low/med) LOW

Date Received: 02/20/09

% Moisture: not dec. _____

Date Analyzed: 02/25/09

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: 02/19/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 25-FEB-2009 16:19
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: SC0850-11RA
Client ID: 039G22LF15
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
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	0.6	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.6	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		160	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		93%				
2037-26-5	Toluene-D8		96%				
17060-07-0	1,2-Dichloroethane-D4		96%				
1868-53-7	Dibromofluoromethane		88%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G22LF15

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-058

Matrix: (soil/water) WATER

Lab Sample ID: SC0850-11RA

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

Lab File ID: F3641

Level: (low/med) LOW

Date Received: 02/20/09

% Moisture: not dec. _____

Date Analyzed: 02/25/09

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:
Project: NSA South Millington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 23-FEB-2009 11:50
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: WG61123-2
Client ID: WG61123-Blank
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61123
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.3
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.3
74-83-9	Bromomethane	U	1	1.0	1	1	0.3
75-00-3	Chloroethane	U	1	1.0	1	1	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	J	2	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		87%				
2037-26-5	Toluene-D8		90%				
17060-07-0	1,2-Dichloroethane-D4		95%				
1868-53-7	Dibromofluoromethane		92%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

WG61123-Blank

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-058

Matrix: (soil/water) WATER

Lab Sample ID: WG61123-2

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

Lab File ID: F3595

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 02/23/09

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:
Project: NSA South Millington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 25-FEB-2009 11:40
Report Date: 03/02/2009
Matrix: WATER
% Solids: NA

Lab ID: WG61203-2
Client ID: WG61203-Blank
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.3
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.3
74-83-9	Bromomethane	U	1	1.0	1	1	0.3
75-00-3	Chloroethane	U	1	1.0	1	1	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	J	2	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		91%				
2037-26-5	Toluene-D8		86%				
17060-07-0	1,2-Dichloroethane-D4		86%				
1868-53-7	Dibromofluoromethane		82%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

WG61203-Blank

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Matrix: (soil/water) WATER Lab Sample ID: WG61203-2

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F3632

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 02/25/09

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.					
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30.					

FORM I VOA-TIC

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 DBF#	SMC2 DCA#	SMC3 TOL#	SMC4 BFB#	TOT OUT
01	WG61123-LCS	WG61123-1	90	90	90	86	0
02	WG61123-BLANK	WG61123-2	92	95	90	87	0
03	039G02LF15	SC0850-1	98	103	89	89	0
04	039G12LF23	SC0850-3	97	103	89	86	0
05	039E21809	SC0850-4	98	103	90	90	0
06	WG61203-LCS	WG61203-1	83	80	90	90	0
07	WG61203-BLANK	WG61203-2	82	86	86	91	0
08	039G13LF22	SC0850-2RA	84	88	93	93	0
09	039G10LF22	SC0850-5RA	87	88	92	93	0
10	039F021809	SC0850-6RA	85	91	89	90	0
11	039G03LF15	SC0850-7RA	89	91	87	93	0
12	039T021909	SC0850-8RA	87	92	85	90	0
13	039G04LF22	SC0850-9RA	86	92	91	90	0
14	039H04LF22	SC0850-10RA	89	96	94	93	0
15	039G22LF15	SC0850-11RA	88	96	96	93	0
16	039G13LF22MS	WG61203-3	87	88	88	93	0
17	039G13LF22MSD	WG61203-4	88	88	87	91	0
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

		QC LIMITS
SMC1 (DBF)	= Dibromofluoromethane	(78-116)
SMC2 (DCA)	= 1,2-Dichloroethane-D4	(70-124)
SMC3 (TOL)	= Toluene-D8	(70-123)
SMC4 (BFB)	= P-Bromofluorobenzene	(69-119)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NSA South Millington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/23/09
Report Date: 03/02/2009
Matrix: WATER

Lab ID: WG61123-1
Client ID: WG61123-LCS
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61123
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	66		133	40-192
Chloromethane	50	NA	63		126	47-151
Vinyl chloride	50	NA	60		121	63-141
Bromomethane	50	NA	66		133	41-169
Chloroethane	50	NA	65		129	57-145
Trichlorofluoromethane	50	NA	63		125	85-164
Diethyl Ether	50	NA	53		106	74-132
Tertiary-butyl alcohol	250	NA	259		104	30-162
1,1-Dichloroethene	50	NA	53		105	79-126
Carbon Disulfide	50	NA	53		106	72-127
Freon-113	50	NA	52		103	78-132
Iodomethane	50	NA	55		110	54-181
Acrolein	250	NA	362	*	145	67-125
Methylene Chloride	50	NA	52		104	70-120
Acetone	50	NA	64		128	54-134
Isobutyl Alcohol	1000	NA	971		97	28-157
trans-1,2-Dichloroethene	50	NA	54		107	76-127
Allyl Chloride	50	NA	52		103	62-141
Methyl tert-butyl ether	100	NA	107		107	78-136
Acetonitrile	500	NA	544		109	47-143
Di-isopropyl ether	50	NA	56		112	72-129
Chloroprene	50	NA	52		105	74-132
Methacrylonitrile	500	NA	600		120	67-138
Propionitrile	500	NA	594		119	61-136
1,1-Dichloroethane	50	NA	54		109	80-126
Acrylonitrile	250	NA	284		114	63-135
Ethyl tertiary-butyl ether	50	NA	55		110	79-124
Vinyl Acetate	50	NA	46		92	68-135
cis-1,2-Dichloroethene	50	NA	48		96	80-116
1,2-Dichloroethylene (total)	100	NA	102		102	79-121
Methyl Methacrylate	50	NA	53		106	70-133
2,2-Dichloropropane	50	NA	51		101	66-150
Bromochloromethane	50	NA	50		100	90-131
Chloroform	50	NA	50		99	86-124
Carbon Tetrachloride	50	NA	45		89	73-146
Tetrahydrofuran	50	NA	57		114	66-120
1,1,1-Trichloroethane	50	NA	48		97	88-125
1,1-Dichloropropene	50	NA	48		95	84-123
2-Butanone	50	NA	58		115	59-125
Benzene	50	NA	49		99	88-115
Cyclohexane	50	NA	54		109	60-150
Ethyl Methacrylate	50	NA	52		104	76-121
Tertiary-amyl methyl ether	50	NA	52		104	80-122
1,2-Dichloroethane	50	NA	48		96	82-125
Trichloroethene	50	NA	46		92	84-115

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NSA South Millington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/23/09
Report Date: 03/02/2009
Matrix: WATER

Lab ID: WG61123-1
Client ID: WG61123-LCS
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61123
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dibromomethane	50	NA	46		93	83-121
1,2-Dichloropropane	50	NA	50		100	79-121
Bromodichloromethane	50	NA	46		92	89-113
cis-1,3-dichloropropene	50	NA	48		97	87-118
1,4-Dioxane	1000	NA	678		68	10-156
2-Chloroethylvinylether	50	NA	49		98	30-177
Toluene	50	NA	47		94	87-119
4-methyl-2-pentanone	50	NA	56		113	70-123
Tetrachloroethene	50	NA	44		88	58-147
trans-1,3-Dichloropropene	50	NA	53		105	90-137
1,1,2-Trichloroethane	50	NA	47		93	80-115
Dibromochloromethane	50	NA	45		91	84-122
1,3-Dichloropropane	50	NA	50		100	76-118
1,2-Dibromoethane	50	NA	47		94	83-116
2-Hexanone	50	NA	58		116	66-121
Chlorobenzene	50	NA	48		95	88-112
Ethylbenzene	50	NA	48		96	86-116
1,1,1,2-Tetrachloroethane	50	NA	47		94	83-118
Xylenes (total)	150	NA	146		97	84-120
m+p-Xylenes	100	NA	97		97	83-122
o-Xylene	50	NA	50		99	82-119
Styrene	50	NA	46		92	85-116
Bromoform	50	NA	45		89	78-127
Isopropylbenzene	50	NA	50		101	90-132
cis-1,4-Dichloro-2-Butene	50	NA	47		93	70-126
trans-1,4-Dichloro-2-Butene	50	NA	49		97	69-132
Bromobenzene	50	NA	45		89	87-113
N-Propylbenzene	50	NA	48		96	84-121
1,1,2,2-Tetrachloroethane	50	NA	46		91	72-119
1,3,5-Trimethylbenzene	50	NA	45		89	84-121
2-Chlorotoluene	50	NA	45		91	85-114
1,2,3-Trichloropropane	50	NA	48		95	74-114
4-Chlorotoluene	50	NA	47		94	81-120
tert-Butylbenzene	50	NA	47		93	73-132
Pentachloroethane	50	NA	48		96	32-163
1,2,4-Trimethylbenzene	50	NA	43		86	80-116
P-Isopropyltoluene	50	NA	45		91	82-125
1,3-Dichlorobenzene	50	NA	46		91	82-118
1,4-Dichlorobenzene	50	NA	46		93	83-113
N-Butylbenzene	50	NA	43		87	72-128
sec-Butylbenzene	50	NA	45		90	83-120
1,2-Dichlorobenzene	50	NA	44		88	83-116
1,2-Dibromo-3-Chloropropane	50	NA	41		82	69-121
1,3,5-Trichlorobenzene	50	NA	38	*	76	80-123
Hexachlorobutadiene	50	NA	38		76	61-124

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NSA South Millington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/23/09
Report Date: 03/02/2009
Matrix: WATER

Lab ID: WG61123-1
Client ID: WG61123-LCS
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61123
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	43	86	71-127
1,2,3-Trimethylbenzene	50	NA	48	96	89-115
Naphthalene	50	NA	42	83	57-132
1,2,3-Trichlorobenzene	50	NA	40	80	62-124
Methyl Acetate	50	NA	58	115	62-137
Methylcyclohexane	50	NA	49	98	74-128
1-Chlorohexane	50	NA	50	100	84-118
Total Alkylbenzenes	350	NA	316	90	60-140

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NSA South Millington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/25/09
Report Date: 03/02/2009
Matrix: WATER

Lab ID: WG61203-1
Client ID: WG61203-LCS
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	59	118	40-192
Chloromethane	50	NA	53	106	47-151
Vinyl chloride	50	NA	52	105	63-141
Bromomethane	50	NA	49	99	41-169
Chloroethane	50	NA	63	127	57-145
Trichlorofluoromethane	50	NA	56	113	85-164
Diethyl Ether	50	NA	45	90	74-132
Tertiary-butyl alcohol	250	NA	207	83	30-162
1,1-Dichloroethene	50	NA	54	107	79-126
Carbon Disulfide	50	NA	52	103	72-127
Freon-113	50	NA	49	98	78-132
Iodomethane	50	NA	52	104	54-181
Acrolein	250	NA	220	88	67-125
Methylene Chloride	50	NA	50	101	70-120
Acetone	50	NA	58	116	54-134
Isobutyl Alcohol	1000	NA	819	82	28-157
trans-1,2-Dichloroethene	50	NA	50	101	76-127
Allyl Chloride	50	NA	49	99	62-141
Methyl tert-butyl ether	100	NA	95	95	78-136
Acetonitrile	500	NA	266	53	47-143
Di-isopropyl ether	50	NA	48	97	72-129
Chloroprene	50	NA	47	95	74-132
Methacrylonitrile	500	NA	438	88	67-138
Propionitrile	500	NA	439	88	61-136
1,1-Dichloroethane	50	NA	51	102	80-126
Acrylonitrile	250	NA	224	90	63-135
Ethyl tertiary-butyl ether	50	NA	47	94	79-124
Vinyl Acetate	50	NA	40	79	68-135
cis-1,2-Dichloroethene	50	NA	49	98	80-116
1,2-Dichloroethylene (total)	100	NA	99	99	79-121
Methyl Methacrylate	50	NA	43	87	70-133
2,2-Dichloropropane	50	NA	52	105	66-150
Bromochloromethane	50	NA	51	102	90-131
Chloroform	50	NA	50	100	86-124
Carbon Tetrachloride	50	NA	51	103	73-146
Tetrahydrofuran	50	NA	44	88	66-120
1,1,1-Trichloroethane	50	NA	51	101	88-125
1,1-Dichloropropene	50	NA	49	97	84-123
2-Butanone	50	NA	46	92	59-125
Benzene	50	NA	49	98	88-115
Cyclohexane	50	NA	51	101	60-150
Ethyl Methacrylate	50	NA	48	95	76-121
Tertiary-amyl methyl ether	50	NA	47	94	80-122
1,2-Dichloroethane	50	NA	48	97	82-125
Trichloroethene	50	NA	49	99	84-115

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NSA South Millington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/25/09
Report Date: 03/02/2009
Matrix: WATER

Lab ID: WG61203-1
Client ID: WG61203-LCS
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dibromomethane	50	NA	48	96	83-121
1,2-Dichloropropane	50	NA	49	97	79-121
Bromodichloromethane	50	NA	49	98	89-113
cis-1,3-dichloropropene	50	NA	50	101	87-118
1,4-Dioxane	1000	NA	620	62	10-156
2-Chloroethylvinylether	50	NA	47	94	30-177
Toluene	50	NA	48	97	87-119
4-methyl-2-pentanone	50	NA	49	99	70-123
Tetrachloroethene	50	NA	44	87	58-147
trans-1,3-Dichloropropene	50	NA	56	112	90-137
1,1,2-Trichloroethane	50	NA	48	97	80-115
Dibromochloromethane	50	NA	46	93	84-122
1,3-Dichloropropane	50	NA	47	93	76-118
1,2-Dibromoethane	50	NA	47	95	83-116
2-Hexanone	50	NA	48	97	66-121
Chlorobenzene	50	NA	48	96	88-112
Ethylbenzene	50	NA	46	92	86-116
1,1,1,2-Tetrachloroethane	50	NA	47	94	83-118
Xylenes (total)	150	NA	144	96	84-120
m+p-Xylenes	100	NA	97	97	83-122
o-Xylene	50	NA	47	95	82-119
Styrene	50	NA	48	95	85-116
Bromoform	50	NA	47	94	78-127
Isopropylbenzene	50	NA	58	116	90-132
cis-1,4-Dichloro-2-Butene	50	NA	49	99	70-126
trans-1,4-Dichloro-2-Butene	50	NA	53	106	69-132
Bromobenzene	50	NA	51	101	87-113
N-Propylbenzene	50	NA	52	104	84-121
1,1,2,2-Tetrachloroethane	50	NA	48	95	72-119
1,3,5-Trimethylbenzene	50	NA	53	105	84-121
2-Chlorotoluene	50	NA	50	99	85-114
1,2,3-Trichloropropane	50	NA	46	91	74-114
4-Chlorotoluene	50	NA	51	103	81-120
tert-Butylbenzene	50	NA	52	104	73-132
Pentachloroethane	50	NA	61	121	32-163
1,2,4-Trimethylbenzene	50	NA	49	98	80-116
P-Isopropyltoluene	50	NA	53	106	82-125
1,3-Dichlorobenzene	50	NA	51	101	82-118
1,4-Dichlorobenzene	50	NA	48	95	83-113
N-Butylbenzene	50	NA	51	102	72-128
sec-Butylbenzene	50	NA	53	105	83-120
1,2-Dichlorobenzene	50	NA	50	99	83-116
1,2-Dibromo-3-Chloropropane	50	NA	45	89	69-121
1,3,5-Trichlorobenzene	50	NA	48	96	80-123
Hexachlorobutadiene	50	NA	45	89	61-124

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: NSA South Millington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/25/09
Report Date: 03/02/2009
Matrix: WATER

Lab ID: WG61203-1
Client ID: WG61203-LCS
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	46		92	71-127
1,2,3-Trimethylbenzene	50	NA	49		97	89-115
Naphthalene	50	NA	42		84	57-132
1,2,3-Trichlorobenzene	50	NA	42		83	62-124
Methyl Acetate	50	NA	52		105	62-137
Methylcyclohexane	50	NA	48		96	74-128
1-Chlorohexane	50	NA	41	*	82	84-118
Total Alkylbenzenes	350	NA	363		104	60-140

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Spectra Tech, Inc.
Project: NSA South Millington
PO No:
Sample Date: 02/18/09
Received Date: 02/20/09
Extraction Date:
Analysis Date: 02/25/09
Report Date: 03/02/2009
Matrix: WATER

Lab ID: WG61203-3 & WG61203-4
Client ID: 039G13LF22MS & 039G13LF22MSD
SDG: NSA-058
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG61203
Units: ug/l

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Chloromethane	50	50	0.00	59	56	119	111	7	20	47-151
Vinyl chloride	50	50	0.00	58	55	116	110	6	20	63-141
Bromomethane	50	50	0.00	57	52	113	105	8	20	41-169
Chloroethane	50	50	0.00	74	63	* 148	127	15	20	57-145
1,1-Dichloroethene	50	50	0.00	52	54	104	108	4	20	79-126
Carbon Disulfide	50	50	0.00	49	50	98	100	2	20	72-127
Methylene Chloride	50	50	0.00	45	46	90	92	2	20	70-120
Acetone	50	50	0.00	40	44	81	88	8	20	54-134
trans-1,2-Dichloroethene	50	50	0.00	50	47	100	94	6	20	76-127
1,1-Dichloroethane	50	50	0.00	55	52	111	103	7	20	80-126
cis-1,2-Dichloroethene	50	50	0.00	54	53	109	106	3	20	80-116
Chloroform	50	50	0.00	53	51	106	102	4	20	86-124
Carbon Tetrachloride	50	50	0.00	53	50	106	101	5	20	73-146
1,1,1-Trichloroethane	50	50	0.00	55	54	109	108	1	20	88-125
2-Butanone	50	50	0.00	47	46	94	93	1	20	59-125
Benzene	50	50	0.00	54	52	109	104	4	20	88-115
1,2-Dichloroethane	50	50	0.00	50	48	100	96	4	20	82-125
Trichloroethene	50	50	0.00	54	51	109	101	7	20	84-115
1,2-Dichloropropane	50	50	0.00	52	49	104	99	6	20	79-121
Bromodichloromethane	50	50	0.00	53	51	106	101	4	20	89-113
cis-1,3-dichloropropene	50	50	0.00	52	50	104	99	5	20	87-118
Toluene	50	50	0.00	51	48	102	97	5	20	87-119
4-methyl-2-pentanone	50	50	0.00	55	50	111	100	10	20	70-123
Tetrachloroethene	50	50	0.00	42	40	83	79	5	20	58-147
trans-1,3-Dichloropropene	50	50	0.00	56	53	112	106	6	20	90-137
1,1,2-Trichloroethane	50	50	0.00	50	51	100	102	2	20	80-115
Dibromochloromethane	50	50	0.00	47	46	95	92	3	20	84-122
2-Hexanone	50	50	0.00	47	45	94	89	6	20	66-121
Chlorobenzene	50	50	0.00	49	50	98	99	2	20	88-112
Ethylbenzene	50	50	0.00	50	50	100	101	1.0	20	86-116
Xylenes (total)	150	150	0.00	154	147	103	98	5	20	84-120
m+p-Xylenes	100	100	0.00	102	98	102	98	4	20	83-122
o-Xylene	50	50	0.00	52	50	104	99	5	20	82-119
Styrene	50	50	0.00	50	51	101	101	0.4	20	85-116
Bromoform	50	50	0.00	46	46	92	93	0.6	20	78-127
1,1,2,2-Tetrachloroethane	50	50	0.00	50	48	99	96	3	20	72-119

FORM III VOA-1
F3648.D & F3649.D

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG61123-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID: F3595 Lab Sample ID: WG61123-2

Date Analyzed: 02/23/09 Time Analyzed: 1150

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG61123-LCS	WG61123-1	F3593	02/23/09	1038
02	039G02LF15	SC0850-1	F3609	02/23/09	1906
03	039G12LF23	SC0850-3	F3610	02/23/09	1938
04	039E21809	SC0850-4	F3611	02/23/09	2009
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COMMENTS:

FORM IVVOA

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG61203-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID: F3632 Lab Sample ID: WG61203-2

Date Analyzed: 02/25/09 Time Analyzed: 1140

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG61203-LCS	WG61203-1	F3630	02/25/09	1026
02	039G13LF22	SC0850-2RA	F3634	02/25/09	1242
03	039G10LF22	SC0850-5RA	F3635	02/25/09	1313
04	039F021809	SC0850-6RA	F3636	02/25/09	1344
05	039G03LF15	SC0850-7RA	F3637	02/25/09	1415
06	039T021909	SC0850-8RA	F3638	02/25/09	1446
07	039G04LF22	SC0850-9RA	F3639	02/25/09	1517
08	039H04LF22	SC0850-10RA	F3640	02/25/09	1548
09	039G22LF15	SC0850-11RA	F3641	02/25/09	1619
10	039G13LF22MS	WG61203-3	F3648	02/25/09	1958
11	039G13LF22MSD	WG61203-4	F3649	02/25/09	2030
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COMMENTS:

FORM IVVOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID: FB120 BFB Injection Date: 02/10/09

Instrument ID: GCMS-F BFB Injection Time: 1118

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.7
75	30.0 - 60.0% of mass 95	41.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	101.1
175	5.0 - 9.0% of mass 174	7.7 (7.6)1
176	95.0 - 101.0% of mass 174	98.8 (97.7)1
177	5.0 - 9.0% of mass 176	7.6 (7.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD200F10A	F3405	02/10/09	1146
02		VSTD100F10A	F3406	02/10/09	1217
03		VSTD050F10A	F3407	02/10/09	1248
04		VSTD020F10A	F3408	02/10/09	1319
05		VSTD005F10A	F3409	02/10/09	1350
06		VSTD001F10A	F3410	02/10/09	1421
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FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID: FB129 BFB Injection Date: 02/23/09

Instrument ID: GCMS-F BFB Injection Time: 0928

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.9
75	30.0 - 60.0% of mass 95	51.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	58.2
175	5.0 - 9.0% of mass 174	4.7 (8.1)1
176	95.0 - 101.0% of mass 174	58.0 (99.6)1
177	5.0 - 9.0% of mass 176	4.4 (7.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050F23A	F3592	02/23/09	0950
02	WG61123-LCS	WG61123-1	F3593	02/23/09	1038
03	WG61123-BLANK	WG61123-2	F3595	02/23/09	1150
04	039G02LF15	SC0850-1	F3609	02/23/09	1906
05	039G12LF23	SC0850-3	F3610	02/23/09	1938
06	039E21809	SC0850-4	F3611	02/23/09	2009
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FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID: FB130 BFB Injection Date: 02/24/09

Instrument ID: GCMS-F BFB Injection Time: 0850

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.9
75	30.0 - 60.0% of mass 95	38.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	95.6
175	5.0 - 9.0% of mass 174	5.8 (6.1)1
176	95.0 - 101.0% of mass 174	96.3 (100.8)1
177	5.0 - 9.0% of mass 176	6.2 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD200F24A	F3620	02/24/09	1149
02		VSTD100F24A	F3621	02/24/09	1219
03		VSTD050F24C	F3622	02/24/09	1250
04		VSTD020F24A	F3623	02/24/09	1321
05		VSTD005F24A	F3624	02/24/09	1353
06		VSTD001F24A	F3625	02/24/09	1424
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FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID: FB131 BFB Injection Date: 02/25/09

Instrument ID: GCMS-F BFB Injection Time: 0919

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.2
75	30.0 - 60.0% of mass 95	53.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	63.2
175	5.0 - 9.0% of mass 174	4.9 (7.7)1
176	95.0 - 101.0% of mass 174	63.5 (100.5)1
177	5.0 - 9.0% of mass 176	4.4 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050F25A	F3629	02/25/09	0942
02	WG61203-LCS	WG61203-1	F3630	02/25/09	1026
03	WG61203-BLANK	WG61203-2	F3632	02/25/09	1140
04	039G13LF22	SC0850-2RA	F3634	02/25/09	1242
05	039G10LF22	SC0850-5RA	F3635	02/25/09	1313
06	039F021809	SC0850-6RA	F3636	02/25/09	1344
07	039G03LF15	SC0850-7RA	F3637	02/25/09	1415
08	039T021909	SC0850-8RA	F3638	02/25/09	1446
09	039G04LF22	SC0850-9RA	F3639	02/25/09	1517
10	039H04LF22	SC0850-10RA	F3640	02/25/09	1548
11	039G22LF15	SC0850-11RA	F3641	02/25/09	1619
12	039G13LF22MS	WG61203-3	F3648	02/25/09	1958
13	039G13LF22MSD	WG61203-4	F3649	02/25/09	2030
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FORM V VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NSA SOUTH MILLINGTON SDG No.: NSA-058

Instrument ID: GCMS-F Calibration Date(s): 02/10/09 02/10/09

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1146 1421

LAB FILE ID: RF1: F3410 RF5: F3409 RF20: F3408
RF50: F3407 RF100: F3406 RF200: F3405

COMPOUND	RF1	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2
Chloromethane	0.858	0.832	0.832	0.824	0.818	0.821	AVRG		0.83102885		1.746	15.000
Vinyl chloride	0.626	0.733	0.705	0.719	0.704	0.678	AVRG		0.69417211		5.512	15.000
Bromomethane	4489	19716	81628	197380	329550	708410	LINR	-7.55e-002	3.29960402		0.99545	0.99000
Chloroethane	3392	14683	52173	126870	200230	406710	2ORDR	-2.81e-002	4.09474649	2.42521002	0.99681	0.99000
1,1-Dichloroethene	0.406	0.394	0.357	0.376	0.368	0.351	AVRG		0.37536465		5.653	15.000
Carbon Disulfide	1.262	1.343	1.305	1.350	1.319	1.255	AVRG		1.30574117		3.056	15.000
Methylene Chloride	9825	27722	92979	216920	466420	1010300	LINR	-1.73e-002	2.31227032		0.99983	0.99000
Acetone	0.119	0.112	0.108	0.109	0.110	0.106	AVRG		0.11081917		3.964	15.000
trans-1,2-Dichloroethene	0.451	0.416	0.400	0.410	0.415	0.408	AVRG		0.41678733		4.297	15.000
1,1-Dichloroethane	1.024	0.998	1.008	1.023	0.979	1.004	AVRG		1.00625783		1.678	15.000
cis-1,2-Dichloroethene	0.627	0.593	0.598	0.606	0.600	0.601	AVRG		0.60415277		1.996	15.000
Chloroform	0.944	0.923	0.886	0.927	0.906	0.911	AVRG		0.91618036		2.144	15.000
Carbon Tetrachloride	0.443	0.447	0.469	0.461	0.476	0.461	AVRG		0.45965260		2.760	15.000
1,1,1-Trichloroethane	0.719	0.704	0.716	0.736	0.730	0.697	AVRG		0.71695695		2.052	15.000
2-Butanone	0.207	0.245	0.239	0.256	0.254	0.236	AVRG		0.23932939		7.411	15.000
Benzene	1.389	1.397	1.439	1.330	1.432	1.321	AVRG		1.38466033		3.592	15.000
1,2-Dichloroethane	0.472	0.439	0.467	0.458	0.478	0.466	AVRG		0.46329477		2.941	15.000
Trichloroethene	0.366	0.365	0.376	0.363	0.360	0.352	AVRG		0.36372925		2.148	15.000
1,2-Dichloropropane	0.390	0.373	0.375	0.375	0.379	0.360	AVRG		0.37547696		2.602	15.000
Bromodichloromethane	0.499	0.489	0.508	0.504	0.514	0.476	AVRG		0.49840244		2.740	15.000
cis-1,3-dichloropropene	0.580	0.591	0.605	0.593	0.582	0.534	AVRG		0.58085671		4.222	15.000
Toluene	0.765	0.816	0.814	0.765	0.804	0.710	AVRG		0.77895795		5.253	15.000
4-methyl-2-pentanone	0.325	0.350	0.349	0.338	0.317	0.244	AVRG		0.32052262		12.397	15.000
Tetrachloroethene	0.416	0.500	0.441	0.409	0.422	0.400	AVRG		0.43128712		8.412	15.000
trans-1,3-Dichloropropene	0.439	0.486	0.485	0.477	0.470	0.426	AVRG		0.46403048		5.445	15.000
1,1,2-Trichloroethane	0.278	0.282	0.261	0.255	0.273	0.246	AVRG		0.26585185		5.244	15.000
Dibromochloromethane	0.480	0.523	0.548	0.518	0.535	0.551	AVRG		0.52591248		4.982	15.000
2-Hexanone	0.274	0.306	0.310	0.292	0.280	0.266	AVRG		0.28810438		6.074	15.000
Chlorobenzene	1.049	1.073	1.134	1.038	1.045	0.963	AVRG		1.05028008		5.263	15.000
Ethylbenzene	0.535	0.513	0.556	0.530	0.519	0.485	AVRG		0.52312453		4.565	15.000
Xylenes (total)							AVRG					0.000
m+p-Xylenes	0.592	0.654	0.637	0.610	0.601	0.539	AVRG		0.60551293		6.590	15.000
o-Xylene	0.601	0.628	0.659	0.610	0.672	0.584	AVRG		0.62570784		5.439	15.000
Styrene	1.065	1.076	1.186	1.078	1.102	1.004	AVRG		1.08523591		5.453	15.000
Bromoform	0.352	0.365	0.397	0.376	0.390	0.373	AVRG		0.37569206		4.338	15.000
1,1,2,2-Tetrachloroethane	0.884	0.845	0.945	0.854	0.839	0.776	AVRG		0.85714380		6.506	15.000
P-Bromofluorobenzene	0.560	0.478	0.425	0.394	0.425	0.375	AVRG		0.44284960		15.141	15.000
Toluene-D8	1.207	1.138	1.051	1.006	1.025	1.027	AVRG		1.07575943		7.381	15.000
1,2-Dichloroethane-D4	0.686	0.518	0.510	0.495	0.516	0.521	AVRG		0.54117469		13.179	15.000
Dibromofluoromethane	0.642	0.624	0.566	0.571	0.599	0.606	AVRG		0.60131733		4.916	15.000

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NSA SOUTH MILLINGTON SDG No.: NSA-058

Instrument ID: GCMS-F Calibration Date(s): 02/10/09 02/10/09

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1146 1421

Average %RSD test result.

Calculate Average %RSD: 6.808800220
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NSA SOUTH MILLINGTON SDG No.: NSA-058

Instrument ID: GCMS-F Calibration Date(s): 02/24/09 02/24/09

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1149 1424

LAB FILE ID: RF1: F3625 RF5: F3624 RF20: F3623
RF50: F3622 RF100: F3621 RF200: F3620

COMPOUND	RF1	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
Chloromethane	1.033	1.024	0.882	0.922	0.928	1.028	AVRG		0.96953060	6.846	15.000
Vinyl chloride	0.817	0.815	0.710	0.748	0.765	0.845	AVRG		0.78317262	6.485	15.000
Bromomethane	0.524	0.560	0.443	0.428	0.385	0.409	AVRG		0.45813002	14.997	15.000
Chloroethane	2536	13021	41039	103420	159530	380550	LINR	-2.96e-002	4.31007940	0.99250	0.99000
1,1-Dichloroethene	0.416	0.448	0.380	0.388	0.405	0.395	AVRG		0.40535279	6.070	15.000
Carbon Disulfide	1.488	1.611	1.358	1.395	1.414	1.410	AVRG		1.44600365	6.323	15.000
Methylene Chloride	11628	24488	71950	181110	368600	817770	LINR	1.5e-003	1.99046901	0.99872	0.99000
Acetone	0.133	0.130	0.119	0.123	0.118	0.127	AVRG		0.12510470	4.539	15.000
trans-1,2-Dichloroethene	0.471	0.491	0.430	0.461	0.451	0.457	AVRG		0.46019314	4.432	15.000
1,1-Dichloroethane	1.077	1.115	0.996	1.086	1.029	1.110	AVRG		1.06876779	4.414	15.000
cis-1,2-Dichloroethene	0.562	0.612	0.548	0.576	0.596	0.645	AVRG		0.58967481	6.009	15.000
Chloroform	0.972	0.955	0.871	0.934	0.944	0.988	AVRG		0.94402121	4.320	15.000
Carbon Tetrachloride	0.390	0.426	0.376	0.422	0.427	0.456	AVRG		0.41617348	6.908	15.000
1,1,1-Trichloroethane	0.657	0.718	0.656	0.716	0.754	0.771	AVRG		0.71213345	6.715	15.000
2-Butanone	0.308	0.308	0.259	0.274	0.286	0.274	AVRG		0.28476284	6.957	15.000
Benzene	1.379	1.371	1.276	1.310	1.358	1.416	AVRG		1.35177160	3.735	15.000
1,2-Dichloroethane	0.539	0.504	0.442	0.468	0.486	0.482	AVRG		0.48671366	6.756	15.000
Trichloroethene	0.331	0.364	0.320	0.355	0.365	0.370	AVRG		0.35099852	5.873	15.000
1,2-Dichloropropane	0.382	0.403	0.361	0.390	0.386	0.393	AVRG		0.38563454	3.666	15.000
Bromodichloromethane	0.446	0.504	0.454	0.485	0.484	0.517	AVRG		0.48176823	5.676	15.000
cis-1,3-dichloropropene	0.561	0.572	0.556	0.561	0.544	0.563	AVRG		0.55939757	1.626	15.000
Toluene	0.806	0.805	0.709	0.776	0.792	0.760	AVRG		0.77477722	4.748	15.000
4-methyl-2-pentanone	0.373	0.402	0.362	0.350	0.335	0.271	AVRG		0.34894997	12.760	15.000
Tetrachloroethene	0.430	0.491	0.422	0.403	0.452	0.408	AVRG		0.43431498	7.584	15.000
trans-1,3-Dichloropropene	0.448	0.469	0.442	0.453	0.449	0.419	AVRG		0.44679762	3.642	15.000
1,1,2-Trichloroethane	0.244	0.272	0.246	0.265	0.271	0.248	AVRG		0.25765935	5.185	15.000
Dibromochloromethane	0.436	0.484	0.454	0.489	0.528	0.500	AVRG		0.48179111	6.790	15.000
2-Hexanone	0.298	0.363	0.329	0.327	0.341	0.284	AVRG		0.32374973	8.949	15.000
Chlorobenzene	1.056	1.042	0.973	0.998	1.084	1.014	AVRG		1.02802546	3.958	15.000
Ethylbenzene	0.504	0.528	0.479	0.501	0.538	0.489	AVRG		0.50666682	4.442	15.000
Xylenes (total)							AVRG				0.000
m+p-Xylenes	0.617	0.626	0.593	0.627	0.665	0.576	AVRG		0.61721399	4.982	15.000
o-Xylene	0.588	0.616	0.569	0.620	0.663	0.622	AVRG		0.61283754	5.258	15.000
Styrene	0.947	1.065	1.008	1.086	1.155	1.054	AVRG		1.05247671	6.720	15.000
Bromoform	0.252	0.323	0.321	0.348	0.386	0.368	AVRG		0.33300018	14.143	15.000
1,1,2,2-Tetrachloroethane	0.852	0.879	0.794	0.851	0.850	0.866	AVRG		0.84868812	3.406	15.000
P-Bromofluorobenzene	0.556	0.493	0.410	0.390	0.437	0.408	AVRG		0.44879817	14.167	15.000
Toluene-D8	1.282	1.116	1.015	1.024	1.092	1.010	AVRG		1.08967996	9.532	15.000
1,2-Dichloroethane-D4	5624	23926	85390	198240	447700	914700	LINR	4.086e-004	1.75521825	0.99958	0.99000
Dibromofluoromethane	0.744	0.669	0.596	0.584	0.645	0.653	AVRG		0.64870556	8.816	15.000

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project NSA SOUTH MILLINGTON SDG No.: NSA-058

Instrument ID: GCMS-F Calibration Date(s): 02/24/09 02/24/09

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1149 1424

Average %RSD test result.

Calculate Average %RSD: 7.739955425
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI VOA

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Instrument ID: GCMS-F Calibration Date: 02/23/09 Time: 0950

Lab File ID: F3592 Init. Calib. Date(s): 02/10/09 02/10/09

Init. Calib. Times: 1146 1421

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

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Chloromethane	0.8310000	0.5937900	0.5937900	0.1	-28.54		AVRG
Vinyl chloride	0.6940000	0.5678900	0.5678900	0.01	-18.17	20.00	AVRG
Bromomethane	50.671000	50.000000	0.3300000	0.01	1.34		LINR
Chloroethane	55.482000	50.000000	0.2429100	0.01	10.96		2RDR
1,1-Dichloroethene	0.3750000	0.3543300	0.3543300	0.1	-5.51	20.00	AVRG
Carbon Disulfide	1.3060000	1.2447000	1.2447000	0.01	-4.69		AVRG
Methylene Chloride	51.736000	50.000000	0.4549900	0.01	3.47		LINR
Acetone	0.1110000	0.1110900	0.1110900	0.01	0.08		AVRG
trans-1,2-Dichloroethene	0.4170000	0.3969100	0.3969100	0.01	-4.82		AVRG
1,1-Dichloroethane	1.0060000	1.0574000	1.0574000	0.1	5.11		AVRG
cis-1,2-Dichloroethene	0.6040000	0.5748400	0.5748400	0.01	-4.83		AVRG
Chloroform	0.9160000	0.8932500	0.8932500	0.01	-2.48	20.00	AVRG
Carbon Tetrachloride	0.4600000	0.4282200	0.4282200	0.01	-6.91		AVRG
1,1,1-Trichloroethane	0.7170000	0.6952700	0.6952700	0.01	-3.03		AVRG
2-Butanone	0.2400000	0.2666400	0.2666400	0.01	11.10		AVRG
Benzene	1.3850000	1.3375000	1.3375000	0.01	-3.43		AVRG
1,2-Dichloroethane	0.4630000	0.4818000	0.4818000	0.01	4.06		AVRG
Trichloroethene	0.3640000	0.3435300	0.3435300	0.01	-5.62		AVRG
1,2-Dichloropropane	0.3750000	0.3801400	0.3801400	0.01	1.37	20.00	AVRG
Bromodichloromethane	0.4980000	0.4874800	0.4874800	0.01	-2.11		AVRG
cis-1,3-dichloropropene	0.5810000	0.5698700	0.5698700	0.01	-1.92		AVRG
Toluene	0.7790000	0.7701800	0.7701800	0.01	-1.13	20.00	AVRG
4-methyl-2-pentanone	0.3200000	0.3523200	0.3523200	0.01	10.10		AVRG
Tetrachloroethene	0.4310000	0.3730100	0.3730100	0.01	-13.46		AVRG
trans-1,3-Dichloropropene	0.4640000	0.4750600	0.4750600	0.01	2.38		AVRG
1,1,2-Trichloroethane	0.2660000	0.2736700	0.2736700	0.01	2.88		AVRG
Dibromochloromethane	0.5260000	0.4765600	0.4765600	0.01	-9.40		AVRG
2-Hexanone	0.2880000	0.2976400	0.2976400	0.01	3.35		AVRG
Chlorobenzene	1.0500000	1.0014000	1.0014000	0.3	-4.63		AVRG

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Instrument ID: GCMS-F Calibration Date: 02/23/09 Time: 0950

Lab File ID: F3592 Init. Calib. Date(s): 02/10/09 02/10/09

Init. Calib. Times: 1146 1421

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

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Ethylbenzene	0.5230000	0.5078000	0.5078000	0.01	-2.91	20.00	AVRG	
Xylenes (total)	0.0000000	0.5881600	0.5881600	0.01	0.00		AVRG	<-
m+p-Xylenes	0.6060000	0.5954600	0.5954600	0.01	-1.74		AVRG	
o-Xylene	0.6260000	0.5735800	0.5735800	0.01	-8.37		AVRG	
Styrene	1.0850000	1.0199000	1.0199000	0.01	-6.00		AVRG	
Bromoform	0.3760000	0.3362800	0.3362800	0.1	-10.56		AVRG	
1,1,2,2-Tetrachloroethane	0.8570000	0.8651300	0.8651300	0.3	0.95		AVRG	
P-Bromofluorobenzene	0.4430000	0.3718900	0.3718900	0.01	-16.05		AVRG	
Toluene-D8	1.0760000	1.0033000	1.0033000	0.01	-6.76		AVRG	
1,2-Dichloroethane-D4	0.5410000	0.4834900	0.4834900	0.01	-10.63		AVRG	
Dibromofluoromethane	0.6010000	0.5435000	0.5435000	0.01	-9.57		AVRG	

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Instrument ID: GCMS-F Calibration Date: 02/25/09 Time: 0942

Lab File ID: F3629 Init. Calib. Date(s): 02/24/09 02/24/09

Init. Calib. Times: 1149 1424

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

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Chloromethane	0.9700000	1.0020000	1.0020000	0.1	3.30		AVRG
Vinyl chloride	0.7830000	0.8168500	0.8168500	0.01	4.32	20.00	AVRG
Bromomethane	0.4580000	0.4561600	0.4561600	0.01	-0.40		AVRG
Chloroethane	63.272000	50.000000	0.3004800	0.01	26.54		LINR
1,1-Dichloroethene	0.4050000	0.3953600	0.3953600	0.1	-2.38	20.00	AVRG
Carbon Disulfide	1.4460000	1.4080000	1.4080000	0.01	-2.63		AVRG
Methylene Chloride	48.165000	50.000000	0.4832000	0.01	-3.67		LINR
Acetone	0.1250000	0.1019600	0.1019600	0.01	-18.43		AVRG
trans-1,2-Dichloroethene	0.4600000	0.4507000	0.4507000	0.01	-2.02		AVRG
1,1-Dichloroethane	1.0690000	1.0778000	1.0778000	0.1	0.82		AVRG
cis-1,2-Dichloroethene	0.5900000	0.6114000	0.6114000	0.01	3.63		AVRG
Chloroform	0.9440000	0.9252700	0.9252700	0.01	-1.98	20.00	AVRG
Carbon Tetrachloride	0.4160000	0.4480700	0.4480700	0.01	7.71		AVRG
1,1,1-Trichloroethane	0.7120000	0.7283200	0.7283200	0.01	2.29		AVRG
2-Butanone	0.2850000	0.2396100	0.2396100	0.01	-15.93		AVRG
Benzene	1.3520000	1.4198000	1.4198000	0.01	5.01		AVRG
1,2-Dichloroethane	0.4870000	0.4881900	0.4881900	0.01	0.24		AVRG
Trichloroethene	0.3510000	0.3640600	0.3640600	0.01	3.72		AVRG
1,2-Dichloropropane	0.3860000	0.3997700	0.3997700	0.01	3.57	20.00	AVRG
Bromodichloromethane	0.4820000	0.5115100	0.5115100	0.01	6.12		AVRG
cis-1,3-dichloropropene	0.5600000	0.6283400	0.6283400	0.01	12.20		AVRG
Toluene	0.7750000	0.8080300	0.8080300	0.01	4.26	20.00	AVRG
4-methyl-2-pentanone	0.3490000	0.3323200	0.3323200	0.01	-4.78		AVRG
Tetrachloroethene	0.4340000	0.3915800	0.3915800	0.01	-9.77		AVRG
trans-1,3-Dichloropropene	0.4470000	0.4785600	0.4785600	0.01	7.06		AVRG
1,1,2-Trichloroethane	0.2580000	0.2597400	0.2597400	0.01	0.67		AVRG
Dibromochloromethane	0.4820000	0.4807400	0.4807400	0.01	-0.26		AVRG
2-Hexanone	0.3240000	0.2592600	0.2592600	0.01	-19.98		AVRG
Chlorobenzene	1.0280000	0.9943300	0.9943300	0.3	-3.28		AVRG

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Instrument ID: GCMS-F Calibration Date: 02/25/09 Time: 0942

Lab File ID: F3629 Init. Calib. Date(s): 02/24/09 02/24/09

Init. Calib. Times: 1149 1424

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

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Ethylbenzene	0.5060000	0.4902300	0.4902300	0.01	-3.12	20.00	AVRG	
Xylenes (total)	0.0000000	0.5936400	0.5936400	0.01	0.00		AVRG	<-
m+p-Xylenes	0.6170000	0.5992600	0.5992600	0.01	-2.88		AVRG	
o-Xylene	0.6130000	0.5824000	0.5824000	0.01	-4.99		AVRG	
Styrene	1.0520000	1.0279000	1.0279000	0.01	-2.29		AVRG	
Bromoform	0.3330000	0.3238800	0.3238800	0.1	-2.74		AVRG	
1,1,2,2-Tetrachloroethane	0.8490000	0.8247400	0.8247400	0.3	-2.86		AVRG	
P-Bromofluorobenzene	0.4490000	0.4101800	0.4101800	0.01	-8.64		AVRG	
Toluene-D8	1.0900000	1.0227000	1.0227000	0.01	-6.17		AVRG	
1,2-Dichloroethane-D4	41.258000	50.000000	0.4698800	0.01	-17.48		LINR	
Dibromofluoromethane	0.6480000	0.5384000	0.5384000	0.01	-16.91		AVRG	

FORM VII PEST

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID (Standard): F3592 Date Analyzed: 02/23/09

Instrument ID: GCMS-F Time Analyzed: 0950

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1(PFB) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD	430806	7.45	612810	8.52	497287	12.11
UPPER LIMIT	861612	7.95	1225620	9.02	994574	12.61
LOWER LIMIT	215403	6.95	306405	8.02	248644	11.61

	CLIENT SAMPLE ID	LAB SAMPLE ID						
01	WG61123-LCS	WG61123-1	420132	7.45	598718	8.51	467941	12.11
02	WG61123-BLANK	WG61123-2	369995	7.46	551144	8.52	444541	12.11
03	039G02LF15	SC0850-1	326917	7.43	503100	8.50	410836	12.10
04	039G12LF23	SC0850-3	326687	7.43	512805	8.50	407415	12.10
05	039E21809	SC0850-4	317491	7.43	491742	8.49	403768	12.10
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-D5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID (Standard): F3592 Date Analyzed: 02/23/09

Instrument ID: GCMS-F Time Analyzed: 0950

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4(DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	251894	15.18				
UPPER LIMIT	503788	15.68				
LOWER LIMIT	125947	14.68				

	CLIENT SAMPLE ID	LAB SAMPLE ID						
01	WG61123-LCS	WG61123-1	253908	15.18				
02	WG61123-BLANK	WG61123-2	221144	15.19				
03	039G02LF15	SC0850-1	195463	15.17				
04	039G12LF23	SC0850-3	199328	15.17				
05	039E21809	SC0850-4	201621	15.17				
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS4 (DCB) = 1,4-Dichlorobenzene-D4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID (Standard): F3629 Date Analyzed: 02/25/09

Instrument ID: GCMS-F Time Analyzed: 0942

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1(PFB) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD	431663	7.43	592763	8.49	492316	12.10
UPPER LIMIT	863326	7.93	1185526	8.99	984632	12.60
LOWER LIMIT	215832	6.93	296382	7.99	246158	11.60

	CLIENT SAMPLE ID	LAB SAMPLE ID						
01	WG61203-LCS	WG61203-1	417617	7.41	594711	8.48	492645	12.08
02	WG61203-BLANK	WG61203-2	373733	7.41	546634	8.48	451501	12.08
03	039G13LF22	SC0850-2RA	354731	7.41	514164	8.48	439275	12.09
04	039G10LF22	SC0850-5RA	338286	7.40	506902	8.48	421825	12.09
05	039F021809	SC0850-6RA	336386	7.40	507819	8.48	413159	12.08
06	039G03LF15	SC0850-7RA	326883	7.41	498428	8.47	411217	12.09
07	039T021909	SC0850-8RA	327046	7.41	504179	8.48	407257	12.09
08	039G04LF22	SC0850-9RA	332454	7.41	503749	8.48	414629	12.08
09	039H04LF22	SC0850-10RA	320509	7.41	481249	8.48	394742	12.08
10	039G22LF15	SC0850-11RA	324742	7.41	480867	8.48	414482	12.08
11	039G13LF22MS	WG61203-3	323655	7.41	484171	8.48	406014	12.09
12	039G13LF22MSD	WG61203-4	339507	7.41	502551	8.48	415724	12.09
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-D5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-058

Lab File ID (Standard): F3629 Date Analyzed: 02/25/09

Instrument ID: GCMS-F Time Analyzed: 0942

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS4(DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		247172	15.16				
UPPER LIMIT		494344	15.66				
LOWER LIMIT		123586	14.66				
CLIENT SAMPLE ID	LAB SAMPLE ID						
01 WG61203-LCS	WG61203-1	245893	15.16				
02 WG61203-BLANK	WG61203-2	231795	15.16				
03 039G13LF22	SC0850-2RA	218262	15.16				
04 039G10LF22	SC0850-5RA	206392	15.15				
05 039F021809	SC0850-6RA	208898	15.15				
06 039G03LF15	SC0850-7RA	210692	15.15				
07 039T021909	SC0850-8RA	213146	15.16				
08 039G04LF22	SC0850-9RA	204874	15.16				
09 039H04LF22	SC0850-10RA	203041	15.16				
10 039G22LF15	SC0850-11RA	207956	15.16				
11 039G13LF22MS	WG61203-3	218950	15.16				
12 039G13LF22MSD	WG61203-4	219857	15.16				
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (DCB) = 1,4-Dichlorobenzene-D4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G02LF15

Matrix: WATER **SDG Name:** NSA-058

Percent Solids: 0.00 **Lab Sample ID:** SC0850-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	34800			P	1	100	9.00

Bottle ID: F

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G13LF22

Matrix: WATER **SDG Name:** NSA-058

Percent Solids: 0.00 **Lab Sample ID:** SC0850-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	41.9	B		P	1	100	9.00

Bottle ID: L

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G12LF23

Matrix: WATER **SDG Name:** NSA-058

Percent Solids: 0.00 **Lab Sample ID:** SC0850-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	2000			P	1	100	9.00

Bottle ID: F

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G10LF22

Matrix: WATER **SDG Name:** NSA-058

Percent Solids: 0.00 **Lab Sample ID:** SC0850-005

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	717			P	1	100	9.00

Bottle ID: F

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G03LF15

Matrix: WATER **SDG Name:** NSA-058

Percent Solids: 0.00 **Lab Sample ID:** SC0850-007

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	13400			P	1	100	9.00

Bottle ID: F

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G04LF22

Matrix: WATER **SDG Name:** NSA-058

Percent Solids: 0.00 **Lab Sample ID:** SC0850-009

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	18000			P	1	100	9.00

Bottle ID: D

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G22LF15

Matrix: WATER **SDG Name:** NSA-058

Percent Solids: 0.00 **Lab Sample ID:** SC0850-011

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	25200			P	1	100	9.00

Bottle ID: F

Comments:

FORM I - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: ICV

File: IZB24A Feb 24, 2009 16:34

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	10290.00	102.9
CALCIUM	10000.0	9669.00	96.7
IRON	10000.0	9998.00	100.0
MAGNESIUM	10000.0	10200.00	102.0

SAMPLE: CCV

File: IZB24A Feb 24, 2009 17:00

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12600.00	100.8
CALCIUM	12500.0	12720.00	101.8
IRON	12500.0	12730.00	101.8
MAGNESIUM	12500.0	13010.00	104.1

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: CCV

File: IZB24A Feb 24, 2009 18:04

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12630.00	101.0
CALCIUM	12500.0	12660.00	101.3
IRON	12500.0	12580.00	100.6
MAGNESIUM	12500.0	12910.00	103.3

SAMPLE: CCV

File: IZB24A Feb 24, 2009 19:06

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12600.00	100.8
CALCIUM	12500.0	12860.00	102.9
IRON	12500.0	12630.00	101.0
MAGNESIUM	12500.0	12880.00	103.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: CCV

File: IZB24A Feb 24, 2009 20:09

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12630.00	101.0
CALCIUM	12500.0	12970.00	103.8
IRON	12500.0	12680.00	101.4
MAGNESIUM	12500.0	12890.00	103.1

SAMPLE: CCV

File: IZB24A Feb 24, 2009 21:12

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12600.00	100.8
CALCIUM	12500.0	13090.00	104.7
IRON	12500.0	12700.00	101.6
MAGNESIUM	12500.0	12770.00	102.2

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: CCV

File: IZB24A Feb 24, 2009 22:15

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12610.00	100.9
CALCIUM	12500.0	13050.00	104.4
IRON	12500.0	12640.00	101.1
MAGNESIUM	12500.0	12790.00	102.3

SAMPLE: CCV

File: IZB24A Feb 24, 2009 23:18

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12570.00	100.6
CALCIUM	12500.0	13190.00	105.5
IRON	12500.0	12680.00	101.4
MAGNESIUM	12500.0	12720.00	101.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: CCV

File: IZB24A Feb 25, 2009 0:22

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12600.00	100.8
CALCIUM	12500.0	12810.00	102.5
IRON	12500.0	12360.00	98.9
MAGNESIUM	12500.0	12650.00	101.2

SAMPLE: CCV

File: IZB24A Feb 25, 2009 1:25

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12740.00	101.9
CALCIUM	12500.0	12800.00	102.4
IRON	12500.0	12290.00	98.3
MAGNESIUM	12500.0	12750.00	102.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: CCV

File: IZB24A Feb 25, 2009 1:36

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12670.00	101.4
CALCIUM	12500.0	12710.00	101.7
IRON	12500.0	12260.00	98.1
MAGNESIUM	12500.0	12650.00	101.2

SAMPLE: CCV

File: IZB24A Feb 25, 2009 2:02

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12650.00	101.2
CALCIUM	12500.0	12580.00	100.6
IRON	12500.0	12150.00	97.2
MAGNESIUM	12500.0	12600.00	100.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: PQL

File: IZB24A Feb 24, 2009 16:44

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	301.40	100.5
CALCIUM	50.0	43.39	86.8
IRON	100.0	104.90	104.9
MAGNESIUM	50.0	53.27	106.5

SAMPLE: PQL

File: IZB24A Feb 24, 2009 20:55

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	303.10	101.0
CALCIUM	50.0	46.42	92.8
IRON	100.0	112.20	112.2
MAGNESIUM	50.0	50.48	101.0

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: PQL

File: IZB24A Feb 25, 2009 01:46

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	303.50	101.2
CALCIUM	50.0	56.84	113.7
IRON	100.0	99.09	99.1
MAGNESIUM	50.0	53.33	106.7

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: ICB

File: IZB24A Feb 24, 2009 16:39

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZB24A Feb 24, 2009 17:05

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZB24A Feb 24, 2009 18:09

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	10.28	B
IRON	6.80	U
MAGNESIUM	10.00	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: CCB

File: IZB24A Feb 24, 2009 19:12

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZB24A Feb 24, 2009 20:14

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZB24A Feb 24, 2009 21:17

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	7.60	B
MAGNESIUM	10.00	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: CCB

File: IZB24A Feb 24, 2009 22:20

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZB24A Feb 24, 2009 23:23

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZB24A Feb 25, 2009 0:27

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	8.61	B
MAGNESIUM	10.37	B

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: CCB

File: IZB24A Feb 25, 2009 1:31

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZB24A Feb 25, 2009 1:41

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZB24A Feb 25, 2009 2:07

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	10.29	B
IRON	8.42	B
MAGNESIUM	10.00	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWZB24ICW0

Matrix: WATER **SDG Name:** NSA-058

QC Batch ID: ZB24ICW0

Concentration Units : ug/L

Analyte	RESULT	C
IRON	12.470	B

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: ICSA

File: IZB24A Feb 24, 2009 16:49

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	524000	104.8
CALCIUM	500000	478500	95.7
IRON	200000	196600	98.3
MAGNESIUM	500000	516600	103.3

SAMPLE: ICSAB

File: IZB24A Feb 24, 2009 16:55

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	525800	105.2
CALCIUM	500000	479900	96.0
IRON	200000	197500	98.8
MAGNESIUM	500000	512800	102.6

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: ICSA

File: IZB24A Feb 24, 2009 21:01

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	520100	104.0
CALCIUM	500000	495900	99.2
IRON	200000	196700	98.4
MAGNESIUM	500000	512400	102.5

SAMPLE: ICSAB

File: IZB24A Feb 24, 2009 21:06

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	521700	104.3
CALCIUM	500000	495300	99.1
IRON	200000	196300	98.2
MAGNESIUM	500000	503800	100.8

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Concentration Units: ug/L

SAMPLE: ICSA

File: IZB24A Feb 25, 2009 01:51

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	528300	105.7
CALCIUM	500000	489700	97.9
IRON	200000	190300	95.2
MAGNESIUM	500000	499200	99.8

SAMPLE: ICSAB

File: IZB24A Feb 25, 2009 01:57

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	527400	105.5
CALCIUM	500000	486900	97.4
IRON	200000	189400	94.7
MAGNESIUM	500000	499200	99.8

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWZB24ICW0

Matrix: WATER **SDG Name:** NSA-058

QC Batch ID: ZB24ICW0

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
IRON	1000.0	1097.00	109.7	80	120

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 8/13/2008

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ALUMINUM	300	19.00	P
CALCIUM	50	8.90	P
IRON	100	6.80	P
MAGNESIUM	50	10.00	P

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 2/8/2008

Analyte	MDL	Units	M	EPA Prep./Anal. Method
IRON	9.00	ug/L	P	SW846 3010A / SW846 6010B

ICP INTERELEMENT CORRECTION FACTORS

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Instrument Name: THERMO ICAP 6500 **Date:** 10/9/2008

Instrument ID: I

Analyte	Wavelength (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Co	Cr	Cu	Mo	Ni	Ti	V
ALUMINUM	396.15	0.0	0.0002050	0.0	0.0	0.0	0.0	0.0	0.0475580	0.0	0.0	0.0
ANTIMONY	206.88	0.0000080	0.0	0.0000260	0.0	0.0	0.0095150	0.0	-0.0026030	-0.0003890	0.0	-0.0019060
ARSENIC	189.04	-0.0000010	0.0	-0.0001440	0.0	0.0	0.0002520	0.0	0.0004800	0.0	0.0	0.0
BARIUM	455.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	313.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0004960	0.0000360
BORON	208.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0044509	0.0	0.0	0.0
CADMIUM	226.50	0.0	0.0	0.0000700	0.0	-0.0000220	0.0	0.0	0.0	-0.0000800	0.0000450	0.0
CALCIUM	315.89	0.0	0.0	0.0	0.0	0.0010540	-0.0002580	0.0	0.0	0.0	0.0	0.0
CHROMIUM	267.72	0.0	0.0	-0.0000100	0.0	0.0	0.0	0.0	-0.0000210	0.0	0.0	0.0000720
COBALT	228.62	0.0	0.0	0.0000120	0.0	0.0	0.0000230	0.0	0.0000180	0.0002140	0.0020610	0.0
COPPER	327.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0006350	0.0002980
IRON	259.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0005620	0.0	0.0	0.0
LEAD	220.35	-0.0001090	0.0	0.0000360	0.0	-0.0001570	0.0	0.0002330	-0.0011960	0.0003810	-0.0002030	0.0
MAGNESIUM	285.21	0.0	0.0	-0.0000080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MANGANESE	257.61	-0.0000090	0.0	-0.0000200	0.0000260	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	202.03	0.0	0.0	0.0	0.0	0.0	0.0001080	0.0	0.0	0.0	0.0	-0.0001440
NICKEL	231.60	0.0	0.0	-0.0000450	0.0	0.0002300	0.0	0.0	0.0024100	0.0	0.0	0.0
POTASSIUM	766.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	196.09	0.0000070	0.0	-0.0001320	0.0	-0.0004270	0.0	0.0	0.0	0.0	0.0	0.0000290
SILVER	328.07	0.0	0.0	-0.0002180	0.0	0.0	0.0	0.0	0.0	0.0	-0.0001650	0.0
SODIUM	589.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	190.86	0.0000050	0.0	-0.0000030	0.0	0.0054870	0.0	-0.0000030	-0.0001640	0.0	-0.0011620	-0.0051480
TIN	189.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	334.90	0.0	0.0	0.0	0.0	0.0	0.0001290	0.0	0.0015460	0.0	0.0	0.0
VANADIUM	292.40	0.0	0.0	0.0000260	0.0	0.0	-0.0029690	0.0	-0.0080400	0.0	0.0010400	0.0
ZINC	206.20	0.0	0.0	0.0	0.0	0.0	-0.0005230	0.0	0.0	0.0	0.0	0.0

FORM XI - IN

Sample Data Summary A0000083

ICP LINEAR RANGES

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 1/26/2009

Concentration Units: ug/L

Analyte	Integration Time (sec)	Linear Range	M
ALUMINUM	5.00	1000000	P
CALCIUM	5.00	1000000	P
IRON	5.00	400000	P
MAGNESIUM	5.00	500000	P

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** ZB24ICW0

Matrix: WATER **SDG Name:** NSA-058

Method: P **Prep Date:** 02/24/2009

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWZB24ICW0	LCSWZB24ICW0	0.05	0.05
PBWZB24ICW0	PBWZB24ICW0	0.05	0.05
039G02LF15	SC0850-001	0.05	0.05
039G13LF22	SC0850-002	0.05	0.05
039G12LF23	SC0850-003	0.05	0.05
039G10LF22	SC0850-005	0.05	0.05
039G03LF15	SC0850-007	0.05	0.05
039G04LF22	SC0850-009	0.05	0.05
039G22LF15	SC0850-011	0.05	0.05

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Instrument ID: THERMO ICAP 6500 **File Name:** IZB24A

Date: 2/24/2009 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements		
Blank		1	16:23	AL	CA	FE	MG
Std 1		1	16:28	AL	CA	FE	MG
ICV		1	16:34	AL	CA	FE	MG
ICB		1	16:39	AL	CA	FE	MG
PQL		1	16:44	AL	CA	FE	MG
ICSA		1	16:49	AL	CA	FE	MG
ICSAB		1	16:55	AL	CA	FE	MG
CCV		1	17:00	AL	CA	FE	MG
CCB		1	17:05	AL	CA	FE	MG
ZZZZZZ		10	17:11				
ZZZZZZ		50	17:16				
ZZZZZZ		10	17:21				
ZZZZZZ		10	17:27				
ZZZZZZ		10	17:32				
ZZZZZZ		1	17:37				
ZZZZZZ		1	17:42				
ZZZZZZ		1	17:48				
ZZZZZZ		1	17:53				
ZZZZZZ		1	17:59				
CCV		1	18:04	AL	CA	FE	MG
CCB		1	18:09	AL	CA	FE	MG
ZZZZZZ		1	18:14				
ZZZZZZ		1	18:20				
ZZZZZZ		1	18:25				
ZZZZZZ		1	18:30				
ZZZZZZ		1	18:35				
ZZZZZZ		1	18:40				
ZZZZZZ		1	18:46				
ZZZZZZ		1	18:51				
ZZZZZZ		1	18:56				
ZZZZZZ		1	19:01				
CCV		1	19:06	AL	CA	FE	MG
CCB		1	19:12	AL	CA	FE	MG
ZZZZZZ		1	19:17				
ZZZZZZ		1	19:22				
ZZZZZZ		1	19:27				
ZZZZZZ		1	19:33				
ZZZZZZ		1	19:38				
ZZZZZZ		1	19:43				
ZZZZZZ		5	19:48				
ZZZZZZ		1	19:53				
ZZZZZZ		1	19:59				
ZZZZZZ		1	20:04				
CCV		1	20:09	AL	CA	FE	MG
CCB		1	20:14	AL	CA	FE	MG
ZZZZZZ		1	20:19				
ZZZZZZ		1	20:24				
ZZZZZZ		5	20:30				
ZZZZZZ		1	20:35				
ZZZZZZ		1	20:40				

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Instrument ID: THERMO ICAP 6500 **File Name:** IZB24A

Date: 2/24/2009 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements			
ZZZZZZ		1	20:45				
ZZZZZZ		1	20:50				
PQL		1	20:55	AL	CA	FE	MG
ICSA		1	21:01	AL	CA	FE	MG
ICSAB		1	21:06	AL	CA	FE	MG
CCV		1	21:12	AL	CA	FE	MG
CCB		1	21:17	AL	CA	FE	MG
ZZZZZZ		1	21:22				
PBWZB24ICW0		1	21:27			FE	
LCSWZB24ICW0		1	21:33			FE	
ZZZZZZ		5	21:38				
ZZZZZZ		5	21:43				
ZZZZZZ		1	21:48				
ZZZZZZ		1	21:54				
SC0850-001	039G02LF15	1	21:59			FE	
SC0850-002	039G13LF22	1	22:04			FE	
SC0850-003	039G12LF23	1	22:09			FE	
CCV		1	22:15	AL	CA	FE	MG
CCB		1	22:20	AL	CA	FE	MG
SC0850-005	039G10LF22	1	22:25			FE	
SC0850-007	039G03LF15	1	22:30			FE	
SC0850-009	039G04LF22	1	22:36			FE	
SC0850-011	039G22LF15	1	22:41			FE	
ZZZZZZ		5	22:46				
ZZZZZZ		5	22:51				
ZZZZZZ		1	22:57				
ZZZZZZ		1	23:02				
ZZZZZZ		1	23:07				
ZZZZZZ		1	23:13				
CCV		1	23:18	AL	CA	FE	MG
CCB		1	23:23	AL	CA	FE	MG
ZZZZZZ		1	23:29				
ZZZZZZ		1	23:34				
ZZZZZZ		1	23:39				
ZZZZZZ		1	23:45				
ZZZZZZ		1	23:50				
ZZZZZZ		1	23:56				
ZZZZZZ		1	0:01				
ZZZZZZ		1	0:06				
ZZZZZZ		1	0:11				
ZZZZZZ		1	0:17				
CCV		1	0:22	AL	CA	FE	MG
CCB		1	0:27	AL	CA	FE	MG
ZZZZZZ		1	0:33				
ZZZZZZ		1	0:38				
ZZZZZZ		1	0:43				
ZZZZZZ		1	0:49				
ZZZZZZ		5	0:54				
ZZZZZZ		1	0:59				
ZZZZZZ		1	1:05				
ZZZZZZ		1	1:10				

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** NSA-058

Instrument ID: THERMO ICAP 6500 **File Name:** IZB24A

Date: 2/25/2009 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements			
ZZZZZZ		1	1:15				
ZZZZZZ		25	1:20				
CCV		1	1:25	AL	CA	FE	MG
CCB		1	1:31	AL	CA	FE	MG
CCV		1	1:36	AL	CA	FE	MG
CCB		1	1:41	AL	CA	FE	MG
PQL		1	1:46	AL	CA	FE	MG
ICSA		1	1:51	AL	CA	FE	MG
ICSAB		1	1:57	AL	CA	FE	MG
CCV		1	2:02	AL	CA	FE	MG
CCB		1	2:07	AL	CA	FE	MG

FORM XIV - IN

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: SC0850-1
Report Date: 02-MAR-09
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-058

Sample Description	Matrix	Date Sampled	Date Received
039G02LF15	AQ	18-FEB-09	20-FEB-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	J0.030 mg/L	.05	EPA 353.2	WG61031	20-FEB-09 11:29:44	N/A	N/A	AMB	
Total Organic Carbon	1.7 mg/L	1	EPA 415.1	WG61237	26-FEB-09 13:00:28	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: SC0850-2
Report Date: 02-MAR-09
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-058

Sample Description	Matrix	Date Sampled	Date Received
039G13LF22	AQ	18-FEB-09	20-FEB-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	1.6 mg/L	.05	EPA 353.2	WG61031	20-FEB-09 11:34:07	N/A	N/A	AMB	
Total Organic Carbon	J0.43 mg/L	1	EPA 415.1	WG61237	26-FEB-09 13:12:21	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: SC0850-3
Report Date: 02-MAR-09
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-058

Sample Description	Matrix	Date Sampled	Date Received
039G12LF23	AQ	18-FEB-09	20-FEB-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	0.050 mg/L	.05	EPA 353.2	WG61031	20-FEB-09 11:33:01	N/A	N/A	AMB	
Total Organic Carbon	J0.41 mg/L	1	EPA 415.1	WG61237	26-FEB-09 13:38:18	N/A	N/A	CP	

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sales@katahdinlab.com

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: SC0850-5
Report Date: 02-MAR-09
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-058

Sample Description	Matrix	Date Sampled	Date Received
039G10LF22	AQ	18-FEB-09	20-FEB-09

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	WG61031	20-FEB-09 11:30:50	N/A	N/A	AMB	
Total Organic Carbon	J0.33 mg/L	1	EPA 415.1	WG61237	26-FEB-09 13:49:43	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: SC0850-7
Report Date: 02-MAR-09
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-058

Sample Description	Matrix	Date Sampled	Date Received
039G03LF15	AQ	18-FEB-09	20-FEB-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	J0.032 mg/L	.05	EPA 353.2	WG61031	20-FEB-09 11:31:55	N/A	N/A	AMB	
Total Organic Carbon	1.3 mg/L	1	EPA 415.1	WG61237	26-FEB-09 14:01:30	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: SC0850-9
Report Date: 02-MAR-09
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-058

Sample Description	Matrix	Date Sampled	Date Received
039G04LF22	AQ	19-FEB-09	20-FEB-09

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	WG61031	20-FEB-09 11:35:13	N/A	N/A	AMB	
Total Organic Carbon	1.5 mg/L	1	EPA 415.1	WG61237	26-FEB-09 14:13:32	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: SC0850-11
Report Date: 02-MAR-09
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-058

Sample Description	Matrix	Date Sampled	Date Received
039G22LF15	AQ	19-FEB-09	20-FEB-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	J0.026 mg/L	.05	EPA 353.2	WG61031	20-FEB-09 11:37:25	N/A	N/A	AMB	
Total Organic Carbon	1.6 mg/L	1	EPA 415.1	WG61237	26-FEB-09 14:25:39	N/A	N/A	CP	

Quality Control Report

Blank Sample Summary Report

Nitrate As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG61031	EPA 353.2	20-FEB-09	N/A	U 0.050 mg/L	.05 mg/L

Nitrite As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG61031	EPA 353.2	20-FEB-09	N/A	U 0.050 mg/L	.05 mg/L

Total Organic Carbon

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG61237	EPA 415.1	26-FEB-09	N/A	U 1.0 mg/L	1 mg/L

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Laboratory Control Sample Summary Report

Nitrate As N

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG61031-2	LCS	WG61031	20-FEB-09	N/A	mg/L	1	1.0	103	80-120	

Nitrite As N

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG61031-3	LCS	WG61031	20-FEB-09	N/A	mg/L	1	1.0	101	80-120	

Total Organic Carbon

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG61237-2	LCS	WG61237	26-FEB-09	N/A	mg/L	50	48.	96	80-120	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Matrix Spike Sample Summary Report

Nitrate As N

Matrix Spike Sample ID	Sample Type	Original Sample ID	QC Batch	Analysis Date	Result Units	Spike Amount	Sample Result	MS Result	Recovery (%)	Recovery Limit
WG61031-6	MS	SC0850-9	WG61031	20-FEB-09	mg/L	.5	U 0.050	0.47	93	75 - 125

Total Organic Carbon

Matrix Spike Sample ID	Sample Type	Original Sample ID	QC Batch	Analysis Date	Result Units	Spike Amount	Sample Result	MS Result	Recovery (%)	Recovery Limit
WG61237-5	MS	SC0850-2	WG61237	26-FEB-09	mg/L	100	J 0.43	110	114	75 - 125

SPECTRA TECH, INC.
NSA SOUTH MILLINGTON
SDG: NSA-047
SB6515, SB6539

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-047
SB6515, SB6539

Sample Receipt

The following samples were received on November 12 and 13, 2008 and were logged in under Katahdin Analytical Services work order numbers SB6515 and SB6539 for a hardcopy due date of December 3, 2008.

KATAHDIN Sample No.	SPECTRA TECH Sample Identification
SB6515-1	039G02LF14
SB6515-2	039G13LF21
SB6515-4	039G12LF22
SB6539-1	039T111208
SB6539-2	039G10LF21
SB6539-3	039G22LF14
SB6539-4	039G03LF14
SB6539-5	039G04LF21

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-047 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.

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8260B Analysis

Sample SB6515-2 was used for the Matrix Spike (MS) and Matrix Spike Duplicate (MSD), as 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.

One or more target analytes may have been detected above the MDL in some method blanks. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

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

Metals Analysis

The samples of SDG NSA-047 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 SB6515-(1, 2, and 4) were digested for ICP analysis on 11/14/08 (QC Batch YK14ICW2) in accordance with USEPA Method 3010A.

Aqueous-matrix Katahdin Sample Numbers SB6539-(2-5) were digested for ICP analysis on 11/19/08 (QC Batch YK19ICW1) in accordance with USEPA Method 3010A.

ICP analyses of SDG NSA-047 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

P.O. Box 540, Scarborough, ME 04070 • Tel: (207) 874-2400 • Fax: (207) 775-4029 • 600 Technology Way, Scarborough, ME 04074
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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-047 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 12.08.08

Leslie Dimond
Quality Assurance Officer

P.O. Box 540, Scarborough, ME 04070 • Tel: (207) 874-2400 • Fax: (207) 775-4029 • 600 Technology Way, Scarborough, ME 04074
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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: Spectra Tech	KAS PM: [illegible]	Sampled By: client
Project:	KIMS Entry By: AA	Delivered By: Fedex
KAS Work Order#: SB6508	KIMS Review By: [illegible]	Received By: [illegible]
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 11/12/08 1015

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): 5.2
6. Samples received at < 6 °C w/o freezing? Ice or ice packs present? (Y) or N	✓				Cooler temp. (°C): (if no temp blank)
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

0000006

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

Client: Spectra Tech		KAS PM: SMB		Sampled By: Client	
Project:		KIMS Entry By: DD		Delivered By: Fed Ex	
KAS Work Order#: SBL539		KIMS Review By: [illegible]		Received By: DD	
SDG #:	Cooler: 1 of 1			Date/Time Rec.: 11-13-08	

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) 2.2
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

000007

Katahdin
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

Client: Spectra Tech, Inc.
Contact: Ronnie Moody
Phone #: (865)256-8830
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): Ronnie Moody / Ronnie Moody
Copies To:

LAB USE ONLY
WORK ORDER #: 536508
KATAHDIN PROJECT NUMBER: 536515

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 (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
	Ø14GØ2LS24	11/11/08/1005	GW	7	3	2	1	1						
	Ø14T1111Ø8	11/11/08 1040	W	3	3									
	Ø14GØ7LF18	11/11/08/1050	GW	3	3									
	Ø39GØ2LF14	11/11/08/1245	GW	7	3	2	1	1						
	Ø39G13LF21	11/11/08/1310	GW	7	3	2	1	1						
	Ø39H13LF21	11/11/08/1310	GW	6	6					MS/MSD				
	Ø39G12LF22	11/11/08/1530	GW	7	3	2	1	1						
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												

COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Ronnie Moody	11/11/08/1800	[signature]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
					0000008

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN

ORIGINAL

Katahdin
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, Inc. | Contact: Ronnie Moody | 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): Ronnie Moody / Ronnie Moody | Copies To:

LAB USE ONLY | WORK ORDER #: 5B6539 | 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 (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
Ø39T111208	11/12/08/1005	W	3	3									
Ø39G1ØLF21	11/12/08/1030	GW	7	3	2	1	1						
Ø39G22LF14	11/12/08/1055	GW	7	3	2	1	1						
Ø39GØ3LF14	11/12/08/1250	GW	7	3	2	1	1						
Ø39GØ4LF21	11/12/08/1325	GW	7	3	2	1	1						
	/												
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	/												

COMMENTS

11-13-08 1000

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Ronnie Moody	11/12/08 1600	[signature]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
					000009

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN

ORIGINAL

Katahdin ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Nov. 19, 2008
01:36 PM

Login Number: SB6515

Account: SPECTRA001 NoWeb
Spectra Tech, Inc.

Project: SPECTRANSA001

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

Oak Ridge,TN 37830
pgentry@spectratechinc.com

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

Oak Ridge,TN 37830

Report CC Addresses:
Invoice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	Report to MDL.
CHECK NO.	:	
CLIENT PO#	:	N62467-05-G
COOLER TEMPERATURE	:	
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-047
SDG STATUS	:	Begin

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SB6515-1	039G02LF14	11-NOV-08 12:45	12-NOV-08			01-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	13-NOV-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	09-DEC-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	10-MAY-09			
Aqueous	S	SW6010-IRON	10-MAY-09	250mL Plastic+HNO3	1	
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	25-NOV-08	40mL Vial+HCl	3	

SB6515-2	039G13LF21	11-NOV-08 13:10	12-NOV-08			01-DEC-08

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	13-NOV-08	125mL Plastic	1	MS/MSD VOA only.
Aqueous	S	E415.1-TOC	09-DEC-08	40 mL Vial+H2SO4	2	
Aqueous	S	MS/MSD-VOA				
Aqueous	S	SW3010-PREP	10-MAY-09			
Aqueous	S	SW6010-IRON	10-MAY-09	250mL Plastic+HNO3	1	
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	25-NOV-08	40mL Vial+HCl	9	

SB6515-4	039G12LF22	11-NOV-08 15:30	12-NOV-08			01-DEC-08

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	13-NOV-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	09-DEC-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	10-MAY-09			
Aqueous	S	SW6010-IRON	10-MAY-09	250mL Plastic+HNO3	1	
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	25-NOV-08	40mL Vial+HCl	3	

Total Samples: 3 *Total Analyses:* 19

0000010

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Nov. 14, 2008
09:38 AM

Login Number: SB6539

Account: SPECTRA001
Spectra Tech, Inc.

Project: SPECTRANSA001

NoWeb

Login Information

ANALYSIS INSTRUCTIONS	:	Rpt to MDL
CHECK NO.	:	
CLIENT PO#	:	N62467-05G
COOLER TEMPERATURE	:	2.2
DELIVERY SERVICES	:	Fed Ex
EDD FORMAT	:	KAS10SQC-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-047
SDG STATUS	:	~~Cont~~ END

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

Oak Ridge,TN 37830
pgentry@spectratechinc.com

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

Oak Ridge,TN 37830

Report CC Addresses:
Invoice CC Addresses:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SB6539-1	039T111208	12-NOV-08 10:05	13-NOV-08			03-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	26-NOV-08	40mL Vial+HCl	3	

SB6539-2	039G10LF21	12-NOV-08 10:30	13-NOV-08			03-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	14-NOV-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	10-DEC-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	11-MAY-09			
Aqueous	S	SW6010-IRON	11-MAY-09	250mL Plastic+HNO3	1	
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	26-NOV-08	40mL Vial+HCl	3	

SB6539-3	039G22LF14	12-NOV-08 10:55	13-NOV-08			03-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	14-NOV-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	10-DEC-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	11-MAY-09			
Aqueous	S	SW6010-IRON	11-MAY-09	250mL Plastic+HNO3	1	
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	26-NOV-08	40mL Vial+HCl	3	

SB6539-4	039G03LF14	12-NOV-08 12:50	13-NOV-08			03-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	14-NOV-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	10-DEC-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	11-MAY-09			
Aqueous	S	SW6010-IRON	11-MAY-09	250mL Plastic+HNO3	1	
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	26-NOV-08	40mL Vial+HCl	3	

SB6539-5	039G04LF21	12-NOV-08 13:25	13-NOV-08			03-DEC-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	14-NOV-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	10-DEC-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	11-MAY-09			
Aqueous	S	SW6010-IRON	11-MAY-09	250mL Plastic+HNO3	1	
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	26-NOV-08	40mL Vial+HCl	3	

0000011

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Nov. 14, 2008

09:38 AM

Login Number: SB6539

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

Total Samples: 5 *Total Analyses:* 26

0000012

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: 11/11/08
Received Date: 11/12/08
Extraction Date:
Analysis Date: 14-NOV-2008 20:00
Report Date: 12/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6515-1
Client ID: 039G02LF14
SDG: NSA-047
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG58070
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	0.7	1.0	5	5	0.3
67-64-1	Acetone	J	3	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		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		4	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		109%				
2037-26-5	Toluene-D8		111%				
17060-07-0	1,2-Dichloroethane-D4		121%				
1868-53-7	Dibromofluoromethane		116%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G02LF14

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-047

Matrix: (soil/water) WATER

Lab Sample ID: SB6515-1

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

Lab File ID: T2315

Level: (low/med) LOW

Date Received: 11/12/08

% Moisture: not dec. _____

Date Analyzed: 11/14/08

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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5.				
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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: 11/11/08
Received Date: 11/12/08
Extraction Date:
Analysis Date: 14-NOV-2008 20:33
Report Date: 12/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6515-2
Client ID: 039G13LF21
SDG: NSA-047
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG58070
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	1.0	5	5	0.3
67-64-1	Acetone	J	3	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		108%				
2037-26-5	Toluene-D8		111%				
17060-07-0	1,2-Dichloroethane-D4		118%				
1868-53-7	Dibromofluoromethane		114%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G13LF21

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-047

Matrix: (soil/water) WATER

Lab Sample ID: SB6515-2

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

Lab File ID: T2316

Level: (low/med) LOW

Date Received: 11/12/08

% Moisture: not dec. _____

Date Analyzed: 11/14/08

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: 11/11/08
Received Date: 11/12/08
Extraction Date:
Analysis Date: 14-NOV-2008 21:05
Report Date: 12/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6515-4
Client ID: 039G12LF22
SDG: NSA-047
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG58070
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	1.0	5	5	0.3
67-64-1	Acetone	J	3	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.6	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		2	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		109%				
2037-26-5	Toluene-D8		113%				
17060-07-0	1,2-Dichloroethane-D4		123%				
1868-53-7	Dibromofluoromethane		116%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G12LF22

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-047

Matrix: (soil/water) WATER

Lab Sample ID: SB6515-4

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

Lab File ID: T2317

Level: (low/med) LOW

Date Received: 11/12/08

% Moisture: not dec. _____

Date Analyzed: 11/14/08

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: 11/12/08
Received Date: 11/13/08
Extraction Date:
Analysis Date: 19-NOV-2008 16:10
Report Date: 12/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6539-1
Client ID: 039T111208
SDG: NSA-047
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	J	0.4	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	2	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	J	0.4	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		103%				
1868-53-7	Dibromofluoromethane		107%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039T111208

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-047

Matrix: (soil/water) WATER

Lab Sample ID: SB6539-1

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

Lab File ID: T2386

Level: (low/med) LOW

Date Received: 11/13/08

% 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: 11/12/08
Received Date: 11/13/08
Extraction Date:
Analysis Date: 19-NOV-2008 16:42
Report Date: 12/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6539-2
Client ID: 039G10LF21
SDG: NSA-047
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	1.0	5	5	0.3
67-64-1	Acetone	J	3	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-Dichlbropropene	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		111%				
17060-07-0	1,2-Dichloroethane-D4		104%				
1868-53-7	Dibromofluoromethane		106%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G10LF21

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-047

Matrix: (soil/water) WATER

Lab Sample ID: SB6539-2

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

Lab File ID: T2387

Level: (low/med) LOW

Date Received: 11/13/08

% 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: 11/12/08
Received Date: 11/13/08
Extraction Date:
Analysis Date: 19-NOV-2008 17:14
Report Date: 12/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6539-3
Client ID: 039G22LF14
SDG: NSA-047
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	0.9	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.7	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		180	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		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		115%				
2037-26-5	Toluene-D8		114%				
17060-07-0	1,2-Dichloroethane-D4		107%				
1868-53-7	Dibromofluoromethane		112%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G22LF14

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-047

Matrix: (soil/water) WATER

Lab Sample ID: SB6539-3

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

Lab File ID: T2388

Level: (low/med) LOW

Date Received: 11/13/08

% 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: 11/12/08
Received Date: 11/13/08
Extraction Date:
Analysis Date: 19-NOV-2008 17:46
Report Date: 12/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6539-4
Client ID: 039G03LF14
SDG: NSA-047
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	J	0.8	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	0.6	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	0.4	1.0	5	5	0.3
67-64-1	Acetone	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene		48	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		140	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		67	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		109%				
2037-26-5	Toluene-D8		110%				
17060-07-0	1,2-Dichloroethane-D4		108%				
1868-53-7	Dibromofluoromethane		110%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G03LF14

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-047

Matrix: (soil/water) WATER

Lab Sample ID: SB6539-4

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

Lab File ID: T2389

Level: (low/med) LOW

Date Received: 11/13/08

% 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.					
2.					
3.					
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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: 11/12/08
Received Date: 11/13/08
Extraction Date:
Analysis Date: 19-NOV-2008 18:18
Report Date: 12/05/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6539-5
Client ID: 039G04LF21
SDG: NSA-047
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	J	0.3	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	0.5	1.0	5	5	0.3
67-64-1	Acetone	J	2	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	1.0	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		180	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		99	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		107%				
2037-26-5	Toluene-D8		110%				
17060-07-0	1,2-Dichloroethane-D4		105%				
1868-53-7	Dibromofluoromethane		106%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G04LF21

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-047

Matrix: (soil/water) WATER

Lab Sample ID: SB6539-5

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

Lab File ID: T2390

Level: (low/med) LOW

Date Received: 11/13/08

% 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.				
2.				
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FORM I VOA-TIC

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G02LF14

Matrix: WATER **SDG Name:** NSA-047

Percent Solids: 0.00 **Lab Sample ID:** SB6515-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	8560			P	1	100	9.00

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G13LF21

Matrix: WATER **SDG Name:** NSA-047

Percent Solids: 0.00 **Lab Sample ID:** SB6515-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	361			P	1	100	9.00

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: 039G12LF22
Matrix: WATER
SDG Name: NSA-047
Percent Solids: 0.00
Lab Sample ID: SB6515-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	1460			P	1	100	9.00

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G10LF21

Matrix: WATER **SDG Name:** NSA-047

Percent Solids: 0.00 **Lab Sample ID:** SB6539-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	834			P	1	100	9.00

Bottle ID: F

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G22LF14

Matrix: WATER **SDG Name:** NSA-047

Percent Solids: 0.00 **Lab Sample ID:** SB6539-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	25200			P	1	100	9.00

Bottle ID: F

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: 039G03LF14
Matrix: WATER
SDG Name: NSA-047
Percent Solids: 0.00
Lab Sample ID: SB6539-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	7890			P	1	100	9.00

Bottle ID: G

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G04LF21

Matrix: WATER **SDG Name:** NSA-047

Percent Solids: 0.00 **Lab Sample ID:** SB6539-005

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	18600			P	1	100	9.00

Bottle ID: F

Comments:

Report of Analytical Results

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

Lab Sample ID: SB6515-1
Report Date: 03-DEC-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-047

Sample Description	Matrix	Date Sampled	Date Received
039G02LF14	AQ	11-NOV-08	12-NOV-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	WG57962	12-NOV-08 18:12:04	N/A	N/A	CP	
Total Organic Carbon	1.5 mg/L	1	EPA 415.1	WG58614	28-NOV-08 16:49:35	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: SB6515-2
Report Date: 03-DEC-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-047

Sample Description	Matrix	Date Sampled	Date Received
039G13LF21	AQ	11-NOV-08	12-NOV-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	1.5 mg/L	.05	EPA 353.2	WG57962	12-NOV-08 18:14:16	N/A	N/A	CP	
Total Organic Carbon	U1.0 mg/L	1	EPA 415.1	WG58614	28-NOV-08 17:01:08	N/A	N/A	CP	

Report of Analytical Results

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

Lab Sample ID: SB6515-4
Report Date: 03-DEC-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-047

Sample Description	Matrix	Date Sampled	Date Received
039G12LF22	AQ	11-NOV-08	12-NOV-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	0.19 mg/L	.05	EPA 353.2	WG57962	12-NOV-08 18:13:10	N/A	N/A	CP	
Total Organic Carbon	U1.0 mg/L	1	EPA 415.1	WG58614	28-NOV-08 17:12:28	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: SB6539-2
Report Date: 03-DEC-08
Client PO: N62467-05G
Project: NSA South Millington
SDG: NSA-047

Sample Description	Matrix	Date Sampled	Date Received
039G10LF21	AQ	12-NOV-08	13-NOV-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	WG58023	13-NOV-08 16:49:20	N/A	N/A	CP	
Total Organic Carbon	U1.0 mg/L	1	EPA 415.1	WG58614	28-NOV-08 17:23:52	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: SB6539-3
Report Date: 03-DEC-08
Client PO: N62467-05G
Project: NSA South Millington
SDG: NSA-047

Sample Description	Matrix	Date Sampled	Date Received
039G22LF14	AQ	12-NOV-08	13-NOV-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	WG58023	13-NOV-08 16:51:32	N/A	N/A	CP	
Total Organic Carbon	1.2 mg/L	1	EPA 415.1	WG58614	28-NOV-08 17:35:42	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: SB6539-4
Report Date: 03-DEC-08
Client PO: N62467-05G
Project: NSA South Millington
SDG: NSA-047

Sample Description	Matrix	Date Sampled	Date Received
039G03LF14	AQ	12-NOV-08	13-NOV-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	WG58023	13-NOV-08 16:50:26	N/A	N/A	CP	
Total Organic Carbon	1.0 mg/L	1	EPA 415.1	WG58614	28-NOV-08 17:47:26	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: SB6539-5
Report Date: 03-DEC-08
Client PO: N62467-05G
Project: NSA South Millington
SDG: NSA-047

Sample Description	Matrix	Date Sampled	Date Received
039G04LF21	AQ	12-NOV-08	13-NOV-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	WG58023	13-NOV-08 16:46:03	N/A	N/A	CP	
Total Organic Carbon	U1.0 mg/L	1	EPA 415.1	WG58614	28-NOV-08 18:25:13	N/A	N/A	CP	

SPECTRA TECH, INC.
NSA SOUTH MILLINGTON
SDG: NSA-40
SB2473, SB2513

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-040
SB2473, SB2513

Sample Receipt

The following samples were received on May 14 and 15, 2008 and were logged in under Katahdin Analytical Services work order numbers SB2473 and SB2513 for a hardcopy due date of June 2, 2008.

KATAHDIN Sample No.	SPECTRA TECH Sample Identification
SB2473-1	039G13LF19
SB2473-2	039G10LF19
SB2473-3	039G12LF20
SB2473-4	039G02LF12
SB2473-5	039T051308
SB2513-1	039G03LF12
SB2513-2	039G22LF11
SB2513-3	039G04LF19
SB2513-4	039H04LF19
SB2513-5	039E051408
SB2513-6	039F051408

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-040 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 SB2473-1 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 T instrument on 05/14/08 and 05/16/08 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.

Sample SB2473-4 was 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-040 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 SB2473-(1-4) and SB2513-(1-3) 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 SB2473-1. Duplicate laboratory control samples were prepared in this digestion batch.

ICP analyses of SDG NSA-040 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.

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-040 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.

atahdin Analytical Services, Inc.

Sample Receipt Condition Report

Client: Spectra Tech	KAS PM: SMB	Sampled By: Client
Project:	KIMS Entry By: DS	Delivered By: FedEx
KAS Work Order#: SB2473	KIMS Review By: DS	Received By: DS
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 11/08 0950

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	X				
2. Chain of Custody present in cooler?	X				
3. Chain of Custody signed by client?	X	X DS			
4. Chain of Custody matches samples?	X				
5. Temperature Blanks present?	X				Temp (°C): 1.3
6. Samples received at < 6 °C w/o freezing? Ice or ice packs present? (Y) or N	X				Cooler temp. (°C): (if no temp blank)
7. Volatiles free of headspace?	X				Trip blanks contained ~~air~~ no headspace.
Aqueous: No bubble larger than a pea					
Soil/Sediment:					
Received in airtight container?				X	
Received in methanol?				X	
Methanol covering soil?				X	
8. Trip Blank present in cooler?	X				Trip blanks were prepared on 11/14/06 at 12:00
9. Proper sample containers and volume?	X				
10. Samples within hold time upon receipt?	X				
11. Aqueous samples properly preserved?					
Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	X				
Sulfide - >9				X	
Cyanide – pH >12				X	
12. Corrective Action Report Filed?				X	

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

Katahdin Analytical Services, Inc.

Sample Receipt Condition Report

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

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): (7.2)
6. Samples received at < 6 °C w/o freezing? Ice or ice packs present? Y or N	✓				Cooler temp. (°C): (if no temp blank) 2.0
7. 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?				✓	
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

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

0000008

Katahdin
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) 483-7210
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 #: SB2473
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 (Filt. ☐Y ☐N)	TOC (Filt. ☐Y ☐N)	NITRATE (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)
039G13LF19	5/13/08/1110	GW	7	3	2	1	1						
039G10LF19	5/13/08/1144	GW	7	3	2	1	1						
039G13LF19MS	5/13/08/1110	GW	3	3									
039G13LF19MSD	5/13/08/1110	GW	3	3									
039G12LF20	5/13/08/1422	GW	7	3	2	1	1						
039G02LF12	5/13/08/1410	GW	7	3	2	1	1						
039T051308	5/13/08/1546	W	2										
	/												
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	/												
	/												
	/												

COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Travis Watson		5/14/08 0930			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
					0000009

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

ORIGINAL

Katahdin
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 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 [signature] | Copies To:

LAB USE ONLY | WORK ORDER #: SD 2513 SD 2519

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	NITRATES	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
X	039G03LF12	5/14/08 / 1045	GW	7	3	2	1	1		•			
X	039G22LF~~12~~11	5/14/08 / 1035	GW	7	3	2	1	1		•			
X	039G04LF19	5/14/08 / 1305	GW	7	3	2	1	1		•			
X	039H04LF19	5/14/08 / 1305	GW	3	3								
X	039E051408	5/14/08 / 1500	~~SW~~ W	3	3								
X	039F051408	5/14/08 / 1500	~~SW~~ W	3	3								
X	002G02DA14	5/14/08 / 1513	GW	7	3	2	1	1		•			
X	002G02DA14MS	5/14/08 / 1513	GW	3	3								
X	002G02DA14MSD	5/14/08 / 1513	GW	3	3								
X	002G25DA14	5/14/08 / 1520	GW	7	3	2	1	1					
X	002E051408	5/14/08 / 1535	W	3	3								
X	002F051408	5/14/08 / 1535	W	3	3								
X	002WCENT04	5/14/08 / 1317	SW	3	3								
X	002WWEST04	5/14/08 / 1309	SW	3	3								
✓	002WEAST04	5/14/08 / 1324	SW	3	3								
✓	002G26DA14	5/14/08 / 1400	GW	3	3								

COMMENTS

[signature]

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

000010

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL COVERN

ORIGINAL

Katahdin
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 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 | 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.	VOC	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	☐
1	002T051408	5/14/08 / 1630	W	2	2										
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COMMENTS

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

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

May. 14, 2008
02:43 PM

Login Number: SB2473

Account: SPECTRA001
Spectra Tech, Inc.

NoWeb

Project: SPECTRANSA001

Login Information

ANALYSIS INSTRUCTIONS	:	Rpt to MDL
CHECK NO.	:	
CLIENT PO#	:	N62467-05-G
COOLER TEMPERATURE	:	1.3
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 rept & EDD on CD
SDG ID	:	NSA-40
SDG STATUS	:	Begin

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

Oak Ridge,TN 37830
pgentry@spectratechinc.com

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

Oak Ridge,TN 37830

Report CC Addresses:
Invoice CC Addresses:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SB2473-1	039G13LF19	13-MAY-08 11:10	14-MAY-08			02-JUN-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	15-MAY-08	125mL Plastic	1	MS/MSD
Aqueous	S	E415.1-TOC	10-JUN-08	40 mL Vial+H2SO4	2	
Aqueous	S	MS/MSD-VOA				
Aqueous	S	SW3010-PREP	09-NOV-08		1	
Aqueous	S	SW6010-IRON	09-NOV-08	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-MAY-08	40mL Vial+HCl	9	

SB2473-2	039G10LF19	13-MAY-08 11:44	14-MAY-08			02-JUN-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	15-MAY-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	10-JUN-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	09-NOV-08		1	
Aqueous	S	SW6010-IRON	09-NOV-08	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-MAY-08	40mL Vial+HCl	3	

SB2473-3	039G12LF20	13-MAY-08 14:22	14-MAY-08			02-JUN-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	15-MAY-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	10-JUN-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	09-NOV-08		1	
Aqueous	S	SW6010-IRON	09-NOV-08	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-MAY-08	40mL Vial+HCl	3	

SB2473-4	039G02LF12	13-MAY-08 14:10	14-MAY-08			02-JUN-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	15-MAY-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	10-JUN-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	09-NOV-08		1	
Aqueous	S	SW6010-IRON	09-NOV-08	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-MAY-08	40mL Vial+HCl	3	

SB2473-5	039T051308	13-MAY-08 15:46	14-MAY-08			02-JUN-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	27-MAY-08	40mL Vial+HCl	2	

0000012

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

May. 14, 2008

02:43 PM

Login Number: SB2473

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

Total Samples: 5 *Total Analyses:* 27

0000013

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

May. 20, 2008
10:48 AM

Login Number: SB2513

Account: SPECTRA001
Spectra Tech, Inc.

Project: SPECTRANSA001

NoWeb

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-40
SDG STATUS	:	End

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:
ıvoice CC Addresses:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SB2513-1	039G03LF12	14-MAY-08 10:45	15-MAY-08			02-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	

SB2513-2	039G22LF11	14-MAY-08 10:35	15-MAY-08			02-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	

SB2513-3	039G04LF19	14-MAY-08 13:05	15-MAY-08			02-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	9	

SB2513-4	039H04LF19	14-MAY-08 13:05	15-MAY-08			02-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	

SB2513-5	039E051408	14-MAY-08 15:00	15-MAY-08			02-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	

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

May. 20, 2008
10:48 AM

Login Number: SB2513

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
SB2513-6	039F051408	14-MAY-08 15:00	15-MAY-08			02-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: ***6*** ***Total Analyses:*** ***24***

0000015

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: 05/13/08
Received Date: 05/14/08
Extraction Date:
Analysis Date: 23-MAY-2008 15:05
Report Date: 06/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2473-1
Client ID: 039G13LF19
SDG: NSA-040
Extracted by:
Extraction Method: SW846 5030
Analyst: TC
Analysis Method: SW846 8260B
Lab Prep Batch: WG51817
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		108%				
17060-07-0	1,2-Dichloroethane-D4		117%				
2037-26-5	Toluene-D8		100%				
460-00-4	P-Bromofluorobenzene		98%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G13LF19

Lab Name: KATAHDIN ANALYTICAL SERVICES — Lab Code: KAS

Project: NSA SOUTH MILLINGTON — SDG No.: NSA-040

Matrix: (soil/water) WATER — Lab Sample ID: SB2473-1

Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: T0890

Level: (low/med) LOW — Date Received: 05/14/08

% 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: 05/13/08
Received Date: 05/14/08
Extraction Date:
Analysis Date: 23-MAY-2008 15:37
Report Date: 06/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2473-2
Client ID: 039G10LF19
SDG: NSA-040
Extracted by:
Extraction Method: SW846 5030
Analyst: TC
Analysis Method: SW846 8260B
Lab Prep Batch: WG51817
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		105%				
17060-07-0	1,2-Dichloroethane-D4		116%				
2037-26-5	Toluene-D8		99%				
460-00-4	P-Bromofluorobenzene		96%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G10LF19

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-040

Matrix: (soil/water) WATER

Lab Sample ID: SB2473-2

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

Lab File ID: T0891

Level: (low/med) LOW

Date Received: 05/14/08

% 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: 05/13/08
Received Date: 05/14/08
Extraction Date:
Analysis Date: 23-MAY-2008 16:08
Report Date: 06/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2473-3
Client ID: 039G12LF20
SDG: NSA-040
Extracted by:
Extraction Method: SW846 5030
Analyst: TC
Analysis Method: SW846 8260B
Lab Prep Batch: WG51817
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	J	0.9	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		112%				
17060-07-0	1,2-Dichloroethane-D4		122%				
2037-26-5	Toluene-D8		103%				
460-00-4	P-Bromofluorobenzene		102%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G12LF20

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-040

Matrix: (soil/water) WATER

Lab Sample ID: SB2473-3

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

Lab File ID: T0892

Level: (low/med) LOW

Date Received: 05/14/08

% 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: 05/13/08
Received Date: 05/14/08
Extraction Date:
Analysis Date: 23-MAY-2008 16:40
Report Date: 06/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2473-4
Client ID: 039G02LF12
SDG: NSA-040
Extracted by:
Extraction Method: SW846 5030
Analyst: TC
Analysis Method: SW846 8260B
Lab Prep Batch: WG51817
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	J	0.4	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	J	0.7	1.0	1	1	0.3
79-01-6	Trichloroethene		2	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		110%				
17060-07-0	1,2-Dichloroethane-D4		124%				
2037-26-5	Toluene-D8		100%				
460-00-4	P-Bromofluorobenzene		96%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G02LF12

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-040

Matrix: (soil/water) WATER

Lab Sample ID: SB2473-4

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

Lab File ID: T0893

Level: (low/med) LOW

Date Received: 05/14/08

% 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: 05/13/08
Received Date: 05/14/08
Extraction Date:
Analysis Date: 23-MAY-2008 11:54
Report Date: 06/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2473-5
Client ID: 039T051308
SDG: NSA-040
Extracted by:
Extraction Method: SW846 5030
Analyst: TC
Analysis Method: SW846 8260B
Lab Prep Batch: WG51817
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	0.9	1.0	5	5	0.4
67-64-1	Acetone	J	3	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		97%				
17060-07-0	1,2-Dichloroethane-D4		97%				
2037-26-5	Toluene-D8		98%				
460-00-4	P-Bromofluorobenzene		96%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039T051308

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-040

Matrix: (soil/water) WATER

Lab Sample ID: SB2473-5

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

Lab File ID: T0884

Level: (low/med) LOW

Date Received: 05/14/08

% 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-	9.18	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: 05/14/08
Received Date: 05/15/08
Extraction Date:
Analysis Date: 23-MAY-2008 17:10
Report Date: 06/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2513-1
Client ID: 039G03LF12
SDG: NSA-040
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51788
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	J	0.6	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	J	0.6	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		46	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		81	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		95%				
460-00-4	P-Bromofluorobenzene		94%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G03LF12

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-040

Matrix: (soil/water) WATER

Lab Sample ID: SB2513-1

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

Lab File ID: F0409

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.					
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: 05/14/08
Received Date: 05/15/08
Extraction Date:
Analysis Date: 23-MAY-2008 17:41
Report Date: 06/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2513-2
Client ID: 039G22LF11
SDG: NSA-040
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51788
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		150	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		7	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		119%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		96%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G22LF11

Lab Name: KATAHDIN ANALYTICAL SERVICES — Lab Code: KAS

Project: NSA SOUTH MILLINGTON — SDG No.: NSA-040

Matrix: (soil/water) WATER — Lab Sample ID: SB2513-2

Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: F0410

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 18:13
Report Date: 06/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2513-3
Client ID: 039G04LF19
SDG: NSA-040
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51788
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		130	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		130	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		103%				
17060-07-0	1,2-Dichloroethane-D4		122%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		92%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G04LF19

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-040

Matrix: (soil/water) WATER

Lab Sample ID: SB2513-3

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

Lab File ID: F0411

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 18:45
Report Date: 06/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2513-4
Client ID: 039H04LF19
SDG: NSA-040
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51788
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	J	0.5	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		140	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		130	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		104%				
17060-07-0	1,2-Dichloroethane-D4		121%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		92%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039H04LF19

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-040

Matrix: (soil/water) WATER

Lab Sample ID: SB2513-4

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

Lab File ID: F0412

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.				
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: 05/14/08
Received Date: 05/15/08
Extraction Date:
Analysis Date: 23-MAY-2008 11:32
Report Date: 06/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2513-5
Client ID: 039E051408
SDG: NSA-040
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51788
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		97%				
17060-07-0	1,2-Dichloroethane-D4		111%				
2037-26-5	Toluene-D8		97%				
460-00-4	P-Bromofluorobenzene		96%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039E051408

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-040

Matrix: (soil/water) WATER Lab Sample ID: SB2513-5

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F0398

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 12:03
Report Date: 06/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB2513-6
Client ID: 039F051408
SDG: NSA-040
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG51788
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		96%				
17060-07-0	1,2-Dichloroethane-D4		111%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		92%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039F051408

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA SOUTH MILLINGTON SDG No.: NSA-040

Matrix: (soil/water) WATER Lab Sample ID: SB2513-6

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F0399

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.				
2.				
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FORM I VOA-TIC

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: 039G13LF19
Matrix: WATER
SDG Name: NSA-040
Percent Solids: 0.00
Lab Sample ID: SB2473-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	50.9	B		P	1	100	9.00

Bottle ID: D

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: 039G10LF19
Matrix: WATER
SDG Name: NSA-040
Percent Solids: 0.00
Lab Sample ID: SB2473-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	1310			P	1	100	9.00

Bottle ID: D

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: 039G12LF20
Matrix: WATER
SDG Name: NSA-040
Percent Solids: 0.00
Lab Sample ID: SB2473-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	1290			P	1	100	9.00

Bottle ID: D

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: 039G02LF12
Matrix: WATER
SDG Name: NSA-040
Percent Solids: 0.00
Lab Sample ID: SB2473-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	23700			P	1	100	9.00

Bottle ID: D

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: 039G03LF12

Matrix: WATER
SDG Name: NSA-040

Percent Solids: 0.00
Lab Sample ID: SB2513-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	7760			P	1	100	9.00

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: 039G22LF11

Matrix: WATER
SDG Name: NSA-040

Percent Solids: 0.00
Lab Sample ID: SB2513-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	17100			P	1	100	9.00

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: 039G04LF19
Matrix: WATER
SDG Name: NSA-040
Percent Solids: 0.00
Lab Sample ID: SB2513-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	19600			P	1	100	9.00

Bottle ID: A

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: SB2473-1
Report Date: 29-MAY-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-040

Sample Description	Matrix	Date Sampled	Date Received
039G13LF19	AQ	13-MAY-08	14-MAY-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	1.8 mg/L	.05	EPA 353.2	WG51405	14-MAY-08 11:15:29	N/A	N/A	CP	
Total Organic Carbon	J0.44 mg/L	1	EPA 415.1	WG51621	19-MAY-08 23:07:27	N/A	N/A	KK	

600 Technology Way
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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: SB2473-2
Report Date: 29-MAY-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-040

Sample Description	Matrix	Date Sampled	Date Received
039G10LF19	AQ	13-MAY-08	14-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	WG51405	14-MAY-08 11:16:35	N/A	N/A	CP	
Total Organic Carbon	J0.75 mg/L	1	EPA 415.1	WG51621	19-MAY-08 23:42:39	N/A	N/A	KK	

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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: SB2473-3
Report Date: 29-MAY-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-040

Sample Description	Matrix	Date Sampled	Date Received
039G12LF20	AQ	13-MAY-08	14-MAY-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	0.35 mg/L	.05	EPA 353.2	WG51405	14-MAY-08 11:17:41	N/A	N/A	CP	
Total Organic Carbon	J0.45 mg/L	1	EPA 415.1	WG51621	19-MAY-08 23:53:56	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: SB2473-4
Report Date: 29-MAY-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-040

Sample Description	Matrix	Date Sampled	Date Received
039G02LF12	AQ	13-MAY-08	14-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	WG51405	14-MAY-08 13:10:10	N/A	N/A	CP	
Total Organic Carbon	2.2 mg/L	1	EPA 415.1	WG51621	20-MAY-08 00:05:36	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: SB2513-1
Report Date: 29-MAY-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-040

Sample Description	Matrix	Date Sampled	Date Received
039G03LF12	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 12:13:35	N/A	N/A	CP	
Total Organic Carbon	1.7 mg/L	1	EPA 415.1	WG51621	20-MAY-08 00:40:20	N/A	N/A	KK	

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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: SB2513-2
Report Date: 29-MAY-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-040

Sample Description	Matrix	Date Sampled	Date Received
039G22LF11	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 12:12:29	N/A	N/A	CP	
Total Organic Carbon	1.5 mg/L	1	EPA 415.1	WG51621	20-MAY-08 01:13:18	N/A	N/A	KK	

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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: SB2513-3
Report Date: 29-MAY-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-040

Sample Description	Matrix	Date Sampled	Date Received
039G04LF19	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 12:23:55	N/A	N/A	CP	
Total Organic Carbon	1.6 mg/L	1	EPA 415.1	WG51621	20-MAY-08 01:24:54	N/A	N/A	KK	

SPECTRA TECH, INC.
NSA SOUTH MILLINGTON
SDG: NSA-045
SB4783

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-045
SB4783

Sample Receipt

The following samples were received on August 27, 2008 and were logged in under Katahdin Analytical Services work order number SB4783 for a hardcopy due date of September 16, 2008.

KATAHDIN Sample No.	SPECTRA TECH Sample Identification
SB4783-1	039G10LF20
SB4783-2	039G03LF13
SB4783-3	039G12LF21
SB4783-4	039G13LF20
SB4783-5	039G04LF20
SB4783-6	039G02LF13
SB4783-7	039G22LF13
SB4783-8	039H13LF20
SB4783-9	039E082608
SB4783-10	039F082608
SB4783-11	039T082608

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-045 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

Sample SB4783-1 was used for the Matrix Spikes (MS) and Matrix Spike Duplicates (MSD), as 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.

Samples SB4783-2, 4, 5, 6RA and 10 were manually integrated for vinyl chloride, 1,2-dichloroethane and/or acetone. 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-045 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 SB4783-(1-7) were digested for ICP analysis on 09/09/08 (QC Batch YI09ICW1) in accordance with USEPA Method 3010A.

ICP analyses of SDG NSA-045 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-045 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
9.16.08

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 Repo**

Client:	Spectra Tech	KAS PM:	SMB	Sampled By:	client
Project:		KIMS Entry By:	DD	Delivered By:	Fed Ex
KAS Work Order#:	SB4783 / SB4792	KIMS Review By:	DB	Received By:	DD
SDG #:	Cooler: 1 of 1			Date/Time Rec.:	8-27-08 10:00

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): 2.1
6. Samples received at < 6 °C w/o freezing? Ice or ice packs present? Y or N	✓				Cooler temp. (°C): (if no temp blank)
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
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) 483-7210 ( )
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 #: SB4783 / SB4792
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 (Filt. ☐Y ☐N)	TOC (Filt. ☐Y ☐N)	NITRATE (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
039G10LF20	8-26-08 / 1400	GW	13	9	2	1	1						
039G03LF13	8-26-08 / 1354	GW	7	3	2	1	1						
039G12LF21	8-26-08 / 1210	GW	7	3	2	1	1						
039G13LF20	8-26-08 / 1033	GW	7	3	2	1	1						
039G04LF20	8-26-08 / 1530	GW	7	3	2	1	1						
039G02LF13	8-26-08 / 1135	GW	7	3	2	1	1						
039G22LF13	8-26-08 / 1540	GW	7	3	2	1	1						
~~039G13L~~	/												
039H13LF20	8-26-08 / 1033	GW	3	3									
039E082608	8-26-08 / 1420	GW	3	3									
039F082608	8-26-08 / 1230	GW	3	3									
014T08~~26~~25 08	8-25-08 / 1600	W	2	2									
039T082608	8-26-08 / 1600	W	2	2									
	/												
	/												
	/												

COMMENTS

Travis Watson 8-27-08 1000

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
		[signature]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
					0000007

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN

ORIGINAL

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Aug. 27, 2008
02:25 PM

Login Number: SB4783

Account: SPECTRA001
Spectra Tech, Inc.

Project: SPECTRANSA001

NoWeb

Login Information

ANALYSIS INSTRUCTIONS	:	Rpt to MDL
CHECK NO.	:	
CLIENT PO#	:	N62467-05-G
COOLER TEMPERATURE	:	2.1
DELIVERY SERVICES	:	Fed Ex
EDD FORMAT	:	KAS10SQC-CSV
PM	:	SMB
PROJECT NAME	:	NSA South Millington
QC LEVEL	:	IV
REGULATORY LIST	:	NFESC
REPORT INSTRUCTIONS	:	Send copy of rpt and EDD on CD
SDG ID	:	NSA-045
SDG STATUS	:	Begin/END

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

Oak Ridge,TN 37830
pgentry@spectratechinc.com

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

Oak Ridge,TN 37830

Report CC Addresses:
Invoice CC Addresses:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SB4783-1	039G10LF20	26-AUG-08 14:00	27-AUG-08			16-SEP-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	28-AUG-08	125mL Plastic	1	MS/MSD-VOA
Aqueous	S	E415.1-TOC	23-SEP-08	40 mL Vial+H2SO4	2	
Aqueous	S	MS/MSD-VOA				
Aqueous	S	SW3010-PREP	22-FEB-09		1	
Aqueous	S	SW6010-IRON	22-FEB-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	09-SEP-08	40mL Vial+HCl	9	

SB4783-2	039G03LF13	26-AUG-08 13:54	27-AUG-08		16-SEP-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	28-AUG-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	23-SEP-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	22-FEB-09		1	
Aqueous	S	SW6010-IRON	22-FEB-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	09-SEP-08	40mL Vial+HCl	3	

SB4783-3	039G12LF21	26-AUG-08 12:10	27-AUG-08		16-SEP-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	28-AUG-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	23-SEP-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	22-FEB-09		1	
Aqueous	S	SW6010-IRON	22-FEB-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	09-SEP-08	40mL Vial+HCl	3	

SB4783-4	039G13LF20	26-AUG-08 10:33	27-AUG-08		16-SEP-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	28-AUG-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	23-SEP-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	22-FEB-09		1	
Aqueous	S	SW6010-IRON	22-FEB-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	09-SEP-08	40mL Vial+HCl	3	

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Aug. 27, 2008
02:25 PM

Login Number: SB4783

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
SB4783-5	039G04LF20	26-AUG-08 15:30	27-AUG-08			16-SEP-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	28-AUG-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	23-SEP-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	22-FEB-09		1	
Aqueous	S	SW6010-IRON	22-FEB-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	09-SEP-08	40mL Vial+HCl	3	

SB4783-6	039G02LF13	26-AUG-08 11:35	27-AUG-08			16-SEP-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	28-AUG-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	23-SEP-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	22-FEB-09		1	
Aqueous	S	SW6010-IRON	22-FEB-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	09-SEP-08	40mL Vial+HCl	3	

SB4783-7	039G22LF13	26-AUG-08 15:40	27-AUG-08			16-SEP-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	E353.2-NITRATE	28-AUG-08	125mL Plastic	1	
Aqueous	S	E415.1-TOC	23-SEP-08	40 mL Vial+H2SO4	2	
Aqueous	S	SW3010-PREP	22-FEB-09		1	
Aqueous	S	SW6010-IRON	22-FEB-09	250mL Plastic+HNO3		
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	09-SEP-08	40mL Vial+HCl	3	

SB4783-8	039H13LF20	26-AUG-08 10:33	27-AUG-08			16-SEP-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	09-SEP-08	40mL Vial+HCl	3	

SB4783-9	039E082608	26-AUG-08 14:20	27-AUG-08			16-SEP-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	09-SEP-08	40mL Vial+HCl	3	

SB4783-10	039F082608	26-AUG-08 12:30	27-AUG-08			16-SEP-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	09-SEP-08	40mL Vial+HCl	3	

SB4783-11	039T082608	26-AUG-08 16:00	27-AUG-08			16-SEP-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-LIB-SEARCH				
Aqueous	S	SW8260-S	09-SEP-08	40mL Vial+HCl	2	

Total Samples: *11* ***Total Analyses:*** *51*

0000009

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).

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 – 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: 08/26/08
Received Date: 08/27/08
Extraction Date:
Analysis Date: 02-SEP-2008 13:01
Report Date: 09/08/2008
Matrix: WATER
% Solids: NA

Lab ID: SB4783-1
Client ID: 039G10LF20
SDG: NSA-045
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG55278
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		93%				
2037-26-5	Toluene-D8		97%				
17060-07-0	1,2-Dichloroethane-D4		92%				
1868-53-7	Dibromofluoromethane		91%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G10LF20

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-045

Matrix: (soil/water) WATER

Lab Sample ID: SB4783-1

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

Lab File ID: S2742

Level: (low/med) LOW

Date Received: 08/27/08

% Moisture: not dec. _____

Date Analyzed: 09/02/08

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: 08/26/08
Received Date: 08/27/08
Extraction Date:
Analysis Date: 02-SEP-2008 13:33
Report Date: 09/08/2008
Matrix: WATER
% Solids: NA

Lab ID: SB4783-2
Client ID: 039G03LF13
SDG: NSA-045
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG55278
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	J	0.6	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	0.5	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		39	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		110	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		71	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		95%				
2037-26-5	Toluene-D8		97%				
17060-07-0	1,2-Dichloroethane-D4		94%				
1868-53-7	Dibromofluoromethane		94%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G03LF13

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-045

Matrix: (soil/water) WATER

Lab Sample ID: SB4783-2

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

Lab File ID: S2743

Level: (low/med) LOW

Date Received: 08/27/08

% Moisture: not dec. _____

Date Analyzed: 09/02/08

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: 08/26/08
Received Date: 08/27/08
Extraction Date:
Analysis Date: 02-SEP-2008 14:04
Report Date: 09/08/2008
Matrix: WATER
% Solids: NA

Lab ID: SB4783-3
Client ID: 039G12LF21
SDG: NSA-045
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG55278
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	4	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.5	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		2	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		92%				
2037-26-5	Toluene-D8		94%				
17060-07-0	1,2-Dichloroethane-D4		93%				
1868-53-7	Dibromofluoromethane		92%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G12LF21

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-045

Matrix: (soil/water) WATER

Lab Sample ID: SB4783-3

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

Lab File ID: S2744

Level: (low/med) LOW

Date Received: 08/27/08

% Moisture: not dec. _____

Date Analyzed: 09/02/08

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: 08/26/08
Received Date: 08/27/08
Extraction Date:
Analysis Date: 02-SEP-2008 14:35
Report Date: 09/08/2008
Matrix: WATER
% Solids: NA

Lab ID: SB4783-4
Client ID: 039G13LF20
SDG: NSA-045
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG55278
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	4	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		92%				
2037-26-5	Toluene-D8		95%				
17060-07-0	1,2-Dichloroethane-D4		92%				
1868-53-7	Dibromofluoromethane		92%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G13LF20

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-045

Matrix: (soil/water) WATER

Lab Sample ID: SB4783-4

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

Lab File ID: S2745

Level: (low/med) LOW

Date Received: 08/27/08

% Moisture: not dec. _____

Date Analyzed: 09/02/08

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: 08/26/08
Received Date: 08/27/08
Extraction Date:
Analysis Date: 02-SEP-2008 15:06
Report Date: 09/08/2008
Matrix: WATER
% Solids: NA

Lab ID: SB4783-5
Client ID: 039G04LF20
SDG: NSA-045
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG55278
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	J	0.3	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	3	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	J	0.7	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		140	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		90	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		88%				
2037-26-5	Toluene-D8		94%				
17060-07-0	1,2-Dichloroethane-D4		94%				
1868-53-7	Dibromofluoromethane		92%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G04LF20

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-045

Matrix: (soil/water) WATER

Lab Sample ID: SB4783-5

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

Lab File ID: S2746

Level: (low/med) LOW

Date Received: 08/27/08

% Moisture: not dec. _____

Date Analyzed: 09/02/08

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: 08/26/08
Received Date: 08/27/08
Extraction Date:
Analysis Date: 03-SEP-2008 13:33
Report Date: 09/08/2008
Matrix: WATER
% Solids: NA

Lab ID: SB4783-6RA
Client ID: 039G02LF13
SDG: NSA-045
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG55318
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	J	0.6	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	0.7	1.0	1	1	0.3
79-01-6	Trichloroethene		3	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		92%				
2037-26-5	Toluene-D8		94%				
17060-07-0	1,2-Dichloroethane-D4		93%				
1868-53-7	Dibromofluoromethane		94%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G02LF13

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-045

Matrix: (soil/water) WATER

Lab Sample ID: SB4783-6RA

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

Lab File ID: S2768

Level: (low/med) LOW

Date Received: 08/27/08

% Moisture: not dec. _____

Date Analyzed: 09/03/08

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

Dilution Factor: 1.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

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

Number TICs found: 0

	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: 08/26/08
Received Date: 08/27/08
Extraction Date:
Analysis Date: 02-SEP-2008 16:08
Report Date: 09/08/2008
Matrix: WATER
% Solids: NA

Lab ID: SB4783-7
Client ID: 039G22LF13
SDG: NSA-045
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG55278
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	J	0.4	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		140	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		4	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		90%				
2037-26-5	Toluene-D8		94%				
17060-07-0	1,2-Dichloroethane-D4		93%				
1868-53-7	Dibromofluoromethane		93%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039G22LF13

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-045

Matrix: (soil/water) WATER

Lab Sample ID: SB4783-7

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

Lab File ID: S2748

Level: (low/med) LOW

Date Received: 08/27/08

% Moisture: not dec. _____

Date Analyzed: 09/02/08

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: 08/26/08
Received Date: 08/27/08
Extraction Date:
Analysis Date: 02-SEP-2008 16:39
Report Date: 09/08/2008
Matrix: WATER
% Solids: NA

Lab ID: SB4783-8
Client ID: 039H13LF20
SDG: NSA-045
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG55278
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	4	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	J	1	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		92%				
2037-26-5	Toluene-D8		94%				
17060-07-0	1,2-Dichloroethane-D4		92%				
1868-53-7	Dibromofluoromethane		95%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039H13LF20

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-045

Matrix: (soil/water) WATER

Lab Sample ID: SB4783-8

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

Lab File ID: S2749

Level: (low/med) LOW

Date Received: 08/27/08

% Moisture: not dec. _____

Date Analyzed: 09/02/08

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: 08/26/08
Received Date: 08/27/08
Extraction Date:
Analysis Date: 02-SEP-2008 11:59
Report Date: 09/08/2008
Matrix: WATER
% Solids: NA

Lab ID: SB4783-9
Client ID: 039E082608
SDG: NSA-045
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG55278
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	3	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		94%				
2037-26-5	Toluene-D8		97%				
17060-07-0	1,2-Dichloroethane-D4		93%				
1868-53-7	Dibromofluoromethane		93%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039E082608

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-045

Matrix: (soil/water) WATER

Lab Sample ID: SB4783-9

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

Lab File ID: S2740

Level: (low/med) LOW

Date Received: 08/27/08

% Moisture: not dec. _____

Date Analyzed: 09/02/08

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: 08/26/08
Received Date: 08/27/08
Extraction Date:
Analysis Date: 02-SEP-2008 12:30
Report Date: 09/08/2008
Matrix: WATER
% Solids: NA

Lab ID: SB4783-10
Client ID: 039F082608
SDG: NSA-045
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG55278
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	3	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		88%				
2037-26-5	Toluene-D8		93%				
17060-07-0	1,2-Dichloroethane-D4		93%				
1868-53-7	Dibromofluoromethane		92%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039F082608

Lab Name: KATAHDIN ANALYTICAL SERVICES — Lab Code: KAS

Project: NSA SOUTH MILLINGTON — SDG No.: NSA-045

Matrix: (soil/water) WATER — Lab Sample ID: SB4783-10

Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: S2741

Level: (low/med) LOW — Date Received: 08/27/08

% Moisture: not dec. _____ — Date Analyzed: 09/02/08

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: 08/26/08
Received Date: 08/27/08
Extraction Date:
Analysis Date: 02-SEP-2008 11:28
Report Date: 09/08/2008
Matrix: WATER
% Solids: NA

Lab ID: SB4783-11
Client ID: 039T082608
SDG: NSA-045
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG55278
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	B	8	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		92%				
2037-26-5	Toluene-D8		96%				
17060-07-0	1,2-Dichloroethane-D4		93%				
1868-53-7	Dibromofluoromethane		93%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

039T082608

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH MILLINGTON

SDG No.: NSA-045

Matrix: (soil/water) WATER

Lab Sample ID: SB4783-11

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

Lab File ID: S2739

Level: (low/med) LOW

Date Received: 08/27/08

% Moisture: not dec. _____

Date Analyzed: 09/02/08

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

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G10LF20

Matrix: WATER **SDG Name:** NSA-045

Percent Solids: 0.00 **Lab Sample ID:** SB4783-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	904			P	1	100	9.00

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G03LF13

Matrix: WATER **SDG Name:** NSA-045

Percent Solids: 0.00 **Lab Sample ID:** SB4783-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	13000			P	1	100	9.00

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G12LF21

Matrix: WATER **SDG Name:** NSA-045

Percent Solids: 0.00 **Lab Sample ID:** SB4783-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	1550			P	1	100	9.00

Bottle ID: A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G13LF20

Matrix: WATER **SDG Name:** NSA-045

Percent Solids: 0.00 **Lab Sample ID:** SB4783-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	49.3	B		P	1	100	9.00

Bottle ID: A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G04LF20

Matrix: WATER **SDG Name:** NSA-045

Percent Solids: 0.00 **Lab Sample ID:** SB4783-005

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	17800			P	1	100	9.00

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G02LF13

Matrix: WATER **SDG Name:** NSA-045

Percent Solids: 0.00 **Lab Sample ID:** SB4783-006

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	7880			P	1	100	9.00

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** 039G22LF13

Matrix: WATER **SDG Name:** NSA-045

Percent Solids: 0.00 **Lab Sample ID:** SB4783-007

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-89-6	IRON, TOTAL	49500			P	1	100	9.00

Bottle ID: A

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: SB4783-1
Report Date: 15-SEP-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-045

Sample Description	Matrix	Date Sampled	Date Received
039G10LF20	AQ	26-AUG-08	27-AUG-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	WG55117	27-AUG-08 16:25:17	N/A	N/A	CP	
Total Organic Carbon	J0.54 mg/L	1	EPA 415.1	WG55529	09-SEP-08 14:16:04	N/A	N/A	KK	

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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: SB4783-2
Report Date: 15-SEP-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-045

Sample Description	Matrix	Date Sampled	Date Received
039G03LF13	AQ	26-AUG-08	27-AUG-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	WG55117	27-AUG-08 16:26:23	N/A	N/A	CP	
Total Organic Carbon	1.8 mg/L	1	EPA 415.1	WG55529	09-SEP-08 14:27:51	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: SB4783-3
Report Date: 15-SEP-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-045

Sample Description	Matrix	Date Sampled	Date Received
039G12LF21	AQ	26-AUG-08	27-AUG-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	0.12 mg/L	.05	EPA 353.2	WG55117	27-AUG-08 16:27:29	N/A	N/A	CP	
Total Organic Carbon	J0.30 mg/L	1	EPA 415.1	WG55529	09-SEP-08 14:39:27	N/A	N/A	KK	

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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: SB4783-4
Report Date: 15-SEP-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-045

Sample Description	Matrix	Date Sampled	Date Received
039G13LF20	AQ	26-AUG-08	27-AUG-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	1.3 mg/L	.05	EPA 353.2	WG55117	27-AUG-08 16:28:35	N/A	N/A	CP	
Total Organic Carbon	J0.35 mg/L	1	EPA 415.1	WG55529	09-SEP-08 14:50:50	N/A	N/A	KK	

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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: SB4783-5
Report Date: 15-SEP-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-045

Sample Description	Matrix	Date Sampled	Date Received
039G04LF20	AQ	26-AUG-08	27-AUG-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	WG55117	27-AUG-08 16:29:40	N/A	N/A	CP	
Total Organic Carbon	1.3 mg/L	1	EPA 415.1	WG55644	12-SEP-08 12:31:44	N/A	N/A	KK	

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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: SB4783-6
Report Date: 15-SEP-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-045

Sample Description	Matrix	Date Sampled	Date Received
039G02LF13	AQ	26-AUG-08	27-AUG-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	WG55117	27-AUG-08 16:34:04	N/A	N/A	CP	
Total Organic Carbon	1.5 mg/L	1	EPA 415.1	WG55644	12-SEP-08 12:53:33	N/A	N/A	KK	

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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: SB4783-7
Report Date: 15-SEP-08
Client PO: N62467-05-G
Project: NSA South Millington
SDG: NSA-045

Sample Description	Matrix	Date Sampled	Date Received
039G22LF13	AQ	26-AUG-08	27-AUG-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	WG55117	27-AUG-08 16:35:10	N/A	N/A	CP	
Total Organic Carbon	2.0 mg/L	1	EPA 415.1	WG55644	12-SEP-08 13:19:38	N/A	N/A	KK	

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Appendix B
VOC and Geochemical Summary Tables

Table B-1
VOC Results During Interim Measures

Monitoring Well	Constituent	Concentration (µg/L)															
		Jan-05	Apr-05	Jul-05	Oct-05	Jun-06	Aug-06	Oct-06	Feb-07	May-07	Aug-07	Nov-07	Feb-08	May-08	Aug-08	Nov-08	Feb-09
039G02LF	PCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	TCE	0.7 J	1 U	2	2 J	2	0.4	2 U	2 U	2	2	1 U	2	2	3	4J	3
	cis-1,2-DCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.3 J	0.9 J	0.7 J	0.4 J	0.6 J	1 J	0.6 J
	VC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
039G03LF	PCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	TCE	86	100	85	87	98	92	100	110	89	87	99	95	81	71	67	50
	cis-1,2-DCE	31	36	33	32	49	44	60	52	63	69	85	90 J	120	110	140 J	150
	VC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 J	0.6 J	0.6 J	0.6 J	0.6 J
039G04LF	PCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	TCE	320 D	190	140	160	160	160	180	170	170	160	170	140	130	90	99 J	91
	cis-1,2-DCE	12	12	13	13	21	20	28	29	38	56	66	84 J	130	140	180 J	170
	VC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.3 J	0.3 J	0.3 J
039G05LF	PCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS	NS	NS	NS	NS	NS
	TCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS	NS	NS	NS	NS	NS
	cis-1,2-DCE	1 U	1 U	1 U	1 U	0.6 J	1 U	1 U	1 U	1 U	NS	NS	NS	NS	NS	NS	NS
	VC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NS	NS	NS	NS	NS	NS	NS
039G10LF	PCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	TCE	1 U	1 U	1 U	1 U	0.5 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	cis-1,2-DCE	1 U	1 U	1 U	1 U	0.8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	VC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
039G11LF	PCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS	NS	NS	NS	NS	NS
	TCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS	NS	NS	NS	NS	NS
	cis-1,2-DCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS	NS	NS	NS	NS	NS
	VC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NS	NS	NS	NS	NS	NS	NS

Notes:

µg/L = micrograms per liter
U = Not detected
J = Estimated

Table B-1
VOC Results During Interim Measures

Monitoring Well	Constituent	Concentration (µg/L)															
		Jan-05	Apr-05	Jul-05	Oct-05	Jun-06	Aug-06	Oct-06	Feb-07	May-07	Aug-07	Nov-07	Feb-08	May-08	Aug-08	Nov-08	Feb-09
039G12LF	PCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	TCE	8	12	3	3	2	1 U	1 U	1	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	cis-1,2-DCE	2	3	0.9 J	0.7	1	1 U	1 U	1 U	0.8 J	1 U	0.5 J	0.7 J	0.9 J	2	2 J	1 U
	VC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
039G13LF	PCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	TCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	cis-1,2-DCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	VC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
039G14LF	PCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS	NS	NS	NS	NS	NS
	TCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS	NS	NS	NS	NS	NS
	cis-1,2-DCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS	NS	NS	NS	NS	NS
	VC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NS	NS	NS	NS	NS	NS	NS
039G15LF	PCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS	NS	NS	NS	NS	NS
	TCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS	NS	NS	NS	NS	NS
	cis-1,2-DCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS	NS	NS	NS	NS	NS
	VC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NS	NS	NS	NS	NS	NS	NS
039G22LF	PCE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	TCE	81	70	20	12	28	23	31	66	57	27	40	18	7	4	1 J	1 U
	cis-1,2-DCE	3	56	82.5	97	120	84	85	67	69	64	110	120 J	150	140	180 J	160
	VC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U

Notes:

µg/L = micrograms per liter
U = Not detected
J = Estimated

Table B-2
Geochemical Results

Parameter	Date	Monitoring Well										
		039G02LF	039G03LF	039G04LF	039G05LF	039G10LF	039G11LF	039G12LF	039G13LF	039G14LF	039G15LF	039G22LF
Dissolved Oxygen (mg/L)	Jan-05	0.56	0.98	0.39	0.56	0.56	0.63	0.5	0.7	2.32	0.58	0.34
	Apr-05	0.88	0.93	0.8	0.5	1.03	0.67	0.4	0.78	0.92	0.93	2.25
	Jul-05	0.74	0.64	0.44	0.33	0.33	0.47	0.32	0.4	0.98	0.56	0.19
	Oct-05	1.38	0.4	0.38	0.38	0.50	1.6	0.44	0.50	1.00	0.40	0.40
	Jun-06	1.17	0.66	0.53	1.04	1.09	0.28	0.9	0.56	0.23	0.81	0.75
	Aug-06	1.05	2.07	2.82	1.91	1.41	0.81	1.42	1.52	1.09	4.8*	0.82
	Oct-06	0.61	1.49	0.55	0.60	1.46	1.30	0.76	0.79	1.57	0.96	0.39
	Feb-07	1.24	1.07	1.33	0.92	0.67	0.87	1.07	0.74	1.31	0.73	0.59
	May-07	1.25	1.27	1.18	1.24	3.48	1.04	1.45	3.52	2.52	0.74	1.14
	Aug-07	3.8*	0.7	0.5	NS	0.94	NS	0.41	8.3*	NS	NS	0.29
	Nov-07	0.50	0.51	1.51	NS	0.95	NS	0.90	1.28	NS	NS	1.90
	Feb-08	2.26	1.98	0.47	NS	1.17	NS	0.75	1.78	NS	NS	0.43
	May-08	1.10	0.69	1.10	NS	1.17	NS	1.00	1.18	NS	NS	0.84
	Aug-08	0.97	0.35	1.31	NS	1.10	NS	0.50	0.67	NS	NS	1.63
	Nov-08	0.52	0.84	0.48	NS	0.97	NS	0.83	0.99	NS	NS	0.81
	Feb-09	1.52	2.00	0.77	NS	0.50	NS	1.40	1.80	NS	NS	0.60
ORP (mV)	Jan-05	-47	47.1	-28.4	-33.7	-56	-18.3	6	79	15.9	-528.7	-158.3
	Apr-05	-36	19.9	-22.7	-20.2	2.6	14.3	34.1	132	34.7	54.7	-46.2
	Jul-05	-11	137.1	-81.8	-1.2	48.9	-157.8	41.1	87.7	54.4	205.3	-137.3
	Oct-05	-8.1	-54.9	-17.4	-28.0	-104.1	-33.9	0.5	-120.7	0.1	-123.8	-99.6
	Jun-06	-90.8	-109.6	-25.4	-13.2	-57.40	35.7	-64.8	3.5	-66	-62.5	-111.7
	Aug-06	223.1	-181.4	-158.1	0.7	127.60	-185.2	-22.4	55	165.5	-75.5	-104
	Oct-06	-14.2	139.4	-17.9	-7.6	24.7	3.0	36.0	184.0	36.0	-109.0	-38.0
	Feb-07	-23.9	178.3	-4.0	-39.3	9.9	15.7	40.2	14.3	134.1	-95.8	-43.4
	May-07	-77.1	-198.2	-59.0	-39.2	-9.8	-17.6	-202.1	92.8	14.2	-100.4	-232.8
	Aug-07	45	-86	-81	NS	-18	NS	-1	59	NS	NS	-157
	Nov-07	-56	-72	-121	NS	5	NS	-184	-52	NS	NS	-138
	Feb-08	-36	-84	-68	NS	-103	NS	-30	160	NS	NS	-78
	May-08	1	-56.7	-167.1	NS	-277.8	NS	-275.2	341.3	NS	NS	-174.4
	Aug-08	-43	-97.9	-53.2	NS	47.6	NS	3.7	97	NS	NS	-36.2
	Nov-08	-47	-97.2	-68.4	NS	-1	NS	-23.8	35.1	NS	NS	-51.6
	Feb-09	-159.2	-238.1	-57.9	NS	2.7	NS	-186.6	-5	NS	NS	-170
Hydrogen (nM)	Jan-05	1.4	1	1.50	1.6	1.5	2.7	1.2	1.2	NS	NS	NS
	Apr-05	1.7	1.2	1.1	0.92	1	0.75	1.7	0.93	0.81	0.6	2.3
	Jul-05	19	2.1	2	1.9	1.5	4.5	1.9	2.1	2.5	1.9	2
	Oct-05	14	28.0	12	20	560	3.3	74	17	3.40	61	1.4
	Jun-06	9	2.2	55	2.4	1.5	3.4	1.1	45	4.60	5.7	37
	Aug-06	2.7	1.9	1.4	3.2	2	1.7	1.9	3.2	1.40	1.6	1.7
	Oct-06	2	1.3	1.3	2	1.4	1.4	2	1.40	1.1	1.2	1.3
	Feb-07	1.9	1.0	1.2	0.76	0.79	1.5	2.4	2.40	1.2	0.93	NS
	May-07	3.1	1.6	2.7	NS	NS	NS	1.6	1.70	NS	NS	1.4
	Aug-07	6	6.2	2.6	NS	18	NS	1.5	2.60	NS	NS	NS
	Nov-07	2.7	5.3	1.9	NS	2.1	NS	1.9	3.40	NS	NS	NS
	Feb-08	2.6	2.3	2.6	NS	3.3	NS	2.5	2.70	NS	NS	2.9
	May-08	1.5	1.2	1.6	NS	2.1	NS	1.3	3.50	NS	NS	1.4
	Aug-08	84	44.0	63	NS	470	NS	32	12.00	NS	NS	140
	Nov-08	3.1	2.9	1.7	NS	260	NS	2.3	3.70	NS	NS	1.9
	Feb-09	1.3	2.2	1.7	NS	2.5	NS	2.1	5.60	NS	NS	1.4
TOC (mg/L)	Jan-05	0.8 J	0.8 J	1.2	0.8 J	0.4 J	0.3 J	0.5 J	1.0 U	0.6 J	0.9 J	4.4
	Apr-05	0.94 J	0.97 J	1.1	0.75 J	0.48 J	1.0 U	0.32 J	1.0 U	0.39 J	1.1	2.2
	Jul-05	1.0	1.7	1.4	0.72 J	0.47	1.0 U	1.0	1.0	0.41	0.56	34
	Oct-05	1.0	0.8 J	1.1	0.8 J	1.0 U	0.48 J	0.36 J	1.0 U	1.0 U	32.0	1.2
	Jun-06	1.0 U	1.0 U	1.4	9.5	1.0 U	1.0 U	1.7	1.0 U	8.7	31.0	1.1
	Aug-06	1.0	1.1	1.4	0.74 J	0.51 J	0.34 J	0.34 J	0.40 J	1.0	33.0	2.5
	Oct-06	1.3	1.6	1.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0	2.7	20.0
	Feb-07	1.6	1.6	1.6	1.4	0.98 J	0.69 J	0.67 J	0.71 J	1.3	2.2	1.4
	May-07	1.8	1.3	2.0	NS	1.0 U	NS	1.0 U	1.0 U	NS	NS	1.9
	Aug-07	3.6	2.4	2.1	NS	1.0 U	NS	1.0 U	1.9	NS	NS	3.6
	Nov-07	1.1	1.1	1.2	NS	1.0 U	NS	1.0 U	1.0 U	NS	NS	1.2
	Feb-08	1.4	1.6	1.7	NS	1.1	NS	0.60 J	0.62 J	NS	NS	1.5
	May-08	2.2	1.7	1.6	NS	0.75 J	NS	0.45 J	0.44 J	NS	NS	1.5
	Aug-08	1.5	1.8	1.3	NS	0.54 J	NS	0.30 J	0.35 J	NS	NS	2.0
	Nov-08	1.5	1.0	0.0	NS	0.0	NS	0.0	0.0	NS	NS	1.2
	Feb-09	1.7	1.3	1.5	NS	0.3	NS	0.41 J	0.43 J	NS	NS	1.6

Notes:

*	= Erroneous reading
(1)	= Sample was dilluted 50/50 and multiplied by dillution factor of 2.
mg/L	= milligram per liter
µg/L	= microgram per liter
mV	= millivolt
nM	= nanomolar
NS	= Not Sampled
NA	= Not Analyzed
OR	= Over Range
J	= Estimated Value
U	= Concentration below method detection limit

Table B-2
Geochemical Results

Parameter	Date	Monitoring Well										
		039G02LF	039G03LF	039G04LF	039G05LF	039G10LF	039G11LF	039G12LF	039G13LF	039G14LF	039G15LF	039G22LF
Methane (µg/L)	**Jan-05**	28	3.7	62.0	71.0	30.0	0.19	5.7	1.0	NS	NS	NS
	Apr-05	23	24.0	39.0	55.0	27.0	0.0	5.0	0.5	1.1	34	18
	Jul-05	20	1.9	87.0	57.0	8.0	0.43	12.0	1.6	6.2	150	2,700
	Oct-05	46	970	610	35	7.5	2.1	0.4	9.9	5.8	1,200	16,000
	Jun-06	91	830	4300	66	0.052	0.21	0.12	2.4	100	15,000	11,000
	Aug-06	160	2200	9000	53	2.6	1.2	71	3.5	35	15,000	12,000
	Oct-06	730	18	14000	57	1.9	0.64	20	8	2.7	11,000	16,000
	Feb-07	170	2700	5200	0.26	0.89	0.53	1.5	0.99	1.3	1,000	32,000
	May-07	680	1.1	9200	NS	19	NS	19	0.087	NS	NS	7,200
	Aug-07	440	5600	12000	NS	4.6	NS	21	0.81	NS	NS	NS
	Nov-07	2400	4100	13000	NS	16	NS	22	0.18	NS	NS	26,000
	Feb-08	1500	5800	12000	NS	37	NS	43	0.25	NS	NS	14,000
	May-08	5745	11819	3029	NS	38.86	NS	168.95	2.66	NS	NS	186,016
	Aug-08	2600	4700	13000	NS	45	NS	300	0.26	NS	NS	4,800
	Nov-08	2200	240	8500	NS	45	NS	210	8.7	NS	NS	6,600
	Feb-09	1200	2400	7700	NS	73	NS	16	1.9	NS	NS	8,700
Ethane (µg/L)	**Jan-05**	0.24	0.005	0.0092	0.027	0.012	0.005	0.005	0.005	NS	NS	NS
	May-05	0.034	0.041	0.0075	0.019	0.01	0.005	0.005	0.005	NS	1.1	0.34
	Aug-06	0.016	0.01	0.01	0.018	0.003	0.01	0.004	0.01	NS	0.01	0.01
	Feb-07	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NS	0.01	0.042
	May-07	0.005	0.01	0.01	NS	0.01	NS	0.002	0.01	NS	NS	0.01
	Aug-07	0.004	0.01	0.01	NS	0.003	NS	0.004	0.01	NS	NS	NS
	Nov-07	0.002	0.01	0.01	NS	0.004	NS	0.005	0.01	NS	NS	0.025
	Feb-08	0.01	0.01	0.01	NS	0.005	NS	0.004	0.002	NS	NS	0.01
	May-08	156	156	31.25	NS	3.13	NS	15.63	3.13	NS	NS	156.25
	Aug-08	0.01	0.01	0.01	NS	0.004	NS	0.024	0.004	NS	NS	0.01
	Nov-08	0.01	0.01	0.01	NS	0.002	NS	0.003	0.01	NS	NS	0.01
	Feb-09	0.01	0.01	0.01	NS	0.002	NS	0.01	0.01	NS	NS	0.01
Ethene (µg/L)	**Jan-05**	0.140	0.0078	0.031	0.011	0.18	0.013	0.180	0.014	NS	NS	NS
	May-05	0.022	0.05	0.022	0.012	0.1	0.0067	0.014	0.01	NS	0.78	0.87
	Aug-06	0.021	0.01	0.01	0.01	0.04	0.01	0.017	0.007	NS	0.01	0.01
	Feb-07	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NS	0.01	0.025
	May-07	0.01	0.009	0.01	NS	0.046	NS	0.007	0.012	NS	NS	0.01
	Aug-07	0.032	0.01	0.01	NS	0.017	NS	0.011	0.014	NS	NS	NS
	Nov-07	0.01	0.01	0.01	NS	0.009	NS	0.004	0.004	NS	NS	0.029
	Feb-08	0.01	0.01	0.01	NS	0.019	NS	0.008	0.012	NS	NS	0.01
	May-08	145.9	145.85	29.17	NS	2.92	NS	14.59	2.92	NS	NS	145.85
	Aug-08	0.01	0.01	0.01	NS	0.026	NS	0.026	0.023	NS	NS	0.023
	Nov-08	0.01	0.01	0.01	NS	0.007	NS	0.005	0.004	NS	NS	0.01
	Feb-09	0.01	0.006	0.01	NS	0.013	NS	0.011	0.012	NS	NS	0.01
Alkalinity (mg/L)	**Jan-05**	300	360	360	220	140	80	140	100	380	180	280
	Apr-05	360	300	400	180	140	140	160	120	160	220	380
	Jul-05	75	380	420	200	140	120	120	120	100	160	360
	Oct-05	220	340	380	220	140	120	120	100	100	240	440
	Jun-06	300	360	340	140	120	100	100	80	120	340	320
	Aug-06	300	340	300	180	100	80	80	80	80	580	560
	Oct-06	360	360	340	220	140	60	140	100	100	800	480
	Feb-07	340	380	340	220	160	120	120	120	100	360	360
	May-07	360	420	420	NS	180	NS	160	120	NS	NS	580
	Aug-07	360	460	480	NS	180	NS	160	160	NS	NS	1020
	Nov-07	300	260	360	NS	105	NS	75	85	NS	NS	285
	Feb-08	280	400	400	NS	200	NS	120	160	NS	NS	420
	May-08	360	380	400	NS	200	NS	180	140	NS	NS	400
	Aug-08	340	480	440	NS	200	NS	160	120	NS	NS	440
	Nov-08	320	420	420	NS	180	NS	140	120	NS	NS	420
	Feb-09	340	440	360	NS	200	NS	140	140	NS	NS	560

Notes:

*	= Erroneous reading
(1)	= Sample was dilluted 50/50 and multiplied by dillution factor of 2.
mg/L	= milligram per liter
µg/L	= microgram per liter
mV	= millivolt
nM	= nanomolar
NS	= Not Sampled
NA	= Not Analyzed
OR	= Over Range
J	= Estimated Value
U	= Concentration below method detection limit

Table B-2
Geochemical Results

Parameter	Date	Monitoring Well										
		039G02LF	039G03LF	039G04LF	039G05LF	039G10LF	039G11LF	039G12LF	039G13LF	039G14LF	039G15LF	039G22LF
Chloride (mg/L)	Jan-05	20	50	20	70	10	10	20	10	10	15	25
	Apr-05	20	45	20	90	10	10	20	10	15	20	20
	Jul-05	30	30	20	60	10	10	15	10	15	20	25
	Oct-05	20	45	15	70	10	15	10	10	10	15	20
	Jun-06	15	40	15	60	10	10	10	10	10	10	15
	Aug-06	20	35	15	60	10	5	10	10	10	15	15
	Oct-06	45	40	15	55	10	10	10	10	10	15	15
	Feb-07	15	35	15	60	10	10	10	10	10	15	15
	May-07	20	40	35	NS	15	NS	15	15	NS	NS	20
	Aug-07	15	30	15	NS	10	NS	10	10	NS	NS	30
	Nov-07	40	40	40	NS	20	NS	40	40	NS	NS	40
	Feb-08	25	30	15	NS	10	NS	10	15	NS	NS	20
	May-08	20	35	15	NS	10	NS	10	10	NS	NS	15
	Aug-08	20	40	15	NS	15	NS	10	10	NS	NS	15
	Nov-08	20	35	15	NS	15	NS	10	10	NS	NS	15
	Feb-09	20	35	15	NS	15	NS	10	10	NS	NS	15
Ferrous Iron (mg/L)	Jan-05	1.58	0.16	3.29	2.95	2.23	1.68	0.42	0.03	0.27	4.46	4.96
	Apr-05	3.5	0.29	1.9	1.35	0.78	0.34	0.69	0.02	2.57	0.81	2.9
	Jul-05	3.08	0.1	1.8	3.64	1.2	1.72	1.41	0.15	0.28	0.13	8.73
	Oct-05	1.80	1.47	3.18	2.91	1.53	1.77	1.06	0.04	0.02	3.12	2.66
	Jun-06	1.73	0	2.51	1.94	1.22	1.51	1.14	0.04	4.84	1.92	2.90
	Aug-06	NS	0	2.50	2.76	0.98	1.33	1.28	0.0	0.04	2.61	1.07
	Oct-06	1.89	0.17	2.59	1.80	0.86	1.83	1.36	0.06	0.03	2.72	3.05
	Feb-07	NA	0.13	2.37	1.22	0.88	1.60	1.21	0.00	0.03	2.39	1.54
	May-07	3.08	0.54	4.18 (1)	NS	0.80	NS	1.08	0.13	NS	NS	2.79
	Aug-07	0.64	0.79	5.38 (1)	NS	0.76	NS	1.33	0.02	NS	NS	2.94
	Nov-07	OR	2.17	2.90	NS	0.78	NS	1.46	0.03	NS	NS	2.05
	Feb-08	1.29	1.31	1.88	NS	0.56	NS	0.66	0.12	NS	NS	1.38
	May-08	2.30	2.96	3.05	NS	0.97	NS	1.05	0.12	NS	NS	2.47
	Aug-08	5.50	2.74	4.36	NS	0.72	NS	1.25	0.07	NS	NS	2.76
	Nov-08	5.42	2.28	2.64	NS	0.59	NS	27.00	0.18	NS	NS	3.13
	Feb-09	1.52	3.07	2.14	NS	0.63	NS	2	0.04	NS	NS	2.93
Ethane (µg/L)	Jan-05	0.24	<.005	0.0	0.0	0.0	<.005	<.005	<0.005	NS	NS	NS
	Apr-05	0.03	0.0	0.0	0.0	0.0	<.005	<.005	<.005	NS	1.1	0.34
	Jul-05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Oct-05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Jun-06	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.01	<0.01
	Aug-06	0.016	<0.010	<0.01	0.018	0.003J	<0.01	0.004 J	<0.01	NS	NS	NS
	Oct-06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Feb-07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NS	<0.01	0.042
	May-07	0.005 J	<0.01	<0.01	NS	0.01 J	NS	0.002 J	<0.01	NS	NS	<0.01
	Aug-07	0.004 J	<0.01	<0.01	NS	0.003 J	NS	0.004 J	<0.01	NS	NS	NS
	Nov-07	0.002 J	<0.01	<0.01	NS	0.004 J	NS	0.005 J	<0.01	NS	NS	<0.025
	Feb-08	<0.01	<0.01	<0.01	NS	0.005 J	NS	0.004 J	0.002 J	NS	NS	<0.01
	May-08	<156.25	<156.25	<31.25	NS	<3.13	NS	<156.25	<3.13	NS	NS	<156.25
	Aug-08	<0.01	<0.01	<0.01	NS	0.004 J	NS	0.024	0.004 J	NS	NS	<0.01
	Nov-08	0.01 U	0.01 U	0.01 U	NS	0.002 J	NS	0.003 J	0.01 U	NS	NS	0.01 U
	Feb-09	0.01 U	0.01 U	0.01 U	NS	0.002 J	NS	0.01 J	0.01 U	NS	NS	0.01 U
Ethene (µg/L)	Jan-05	0.140	0.0078	0.031	0.011	0.18	0.013	0.180	0.014	NS	NS	NS
	Apr-05	0.022	0.05	0.022	0.012	0.1	0.0067	0.014	0.01	NS	0.78	0.87
	Jul-05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Oct-05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Jun-06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Aug-06	0.021	<0.01	0.01 J	0.01 J	0.04	0.01 J	0.017	0.007 J	NS	<0.01	<0.01
	Oct-06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Feb-07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NS	<0.01	<0.025
	May-07	<0.01	0.009 J	<0.01	NS	0.046	NS	0.007 J	0.012	NS	NS	<0.01
	Aug-07	0.032	<0.01	<0.01	NS	0.017	NS	0.011	0.014	NS	NS	NS
	Nov-07	<0.01	<0.01	<0.01	NS	0.009 J	NS	0.004 J	0.004 J	NS	NS	0.029
	Feb-08	<0.01	<0.01	<0.01	NS	0.019	NS	0.008 J	0.012	NS	NS	<0.01
	May-08	<145.85	<145.85	<29.17	NS	<2.92	NS	<14.59	<2.92	NS	NS	<145.85
	Aug-08	0.01 J	<0.01	<0.01	NS	0.026	NS	0.026	0.023	NS	NS	0.023
	Nov-08	0.01 U	0.01 U	0.01 U	NS	0.007 J	NS	0.005 J	0.004 J	NS	NS	0.01 U
	Feb-09	0.01 U	0.006 J	0.01 U	NS	0.013	NS	0.011	0.012	NS	NS	0.01 U

Notes:

*	= Erroneous reading
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mg/L	= milligram per liter
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nM	= nanomolar
NS	= Not Sampled
NA	= Not Analyzed
OR	= Over Range
J	= Estimated Value
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Appendix C
Groundwater Sampling Forms

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 05-13-08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid-South	EVENT: May 2008		
WELL ID: 39G02LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: Partly Cloudy	AMBIENT TEMP: 70°		
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.): 12.47'	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1305	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Nitrate, Total Iron, VFA's, M, E, E	

MNA FIELD RESULTS

FERROUS IRON	2.30	mg/L	CHLORIDE	20	mg/L	PHOSPHORUS	3 mg/L
SULFIDE	0.328	mg/L	ALKALINITY	~~180~~ 360	mg/L	AMMONIA-NITROGEN	1.95 mg/L
SULFATE	10	mg/L	CO_2	175	mg/L		mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☐ Bailer ☒ Pump Description: QED

Time (hh:mm):	1313	1318	1323	1328	1333	1338	1343	1348	1353	1358	1403
pH (units):	5.81		6.02	5.97	5.97	5.95		6.03	5.85	5.81	5.79
Conductivity (mS/cm):	0.628		0.638	0.639	0.639	0.636		0.645	0.638	0.637	0.635
Turbidity (NTU):	289.4		82.8	72.7	43.4	51.7		30.2	64.9	22.1	25.8
DO (mg/L):	1.45		1.49	1.48	1.40	1.38		2.31	1.19	1.12	1.10
Temperature (C°):	19.92		20.77	21.15	21.21	21.03		21.93	21.22	21.31	21.32
ORP (mV):	-5.1		-2.0	0.6	0.5	0.2		-9.1	0.1	1.7	1.2
Volume Purged (gal):	0.75		0.95	1.05	1.20	1.35		1.9	2.0	2.1	2.2
Depth to Water (ft):	12.64		12.52	12.52	12.52	12.52		12.52	12.52	12.52	12.52
								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
039G02LF12	05/13/08	1410	9	Ø	

Purging/Sampling Device Decon Process:

COMMENTS: YSI monitor froze up and flow was decreased at 1318. YSI flow cell was cleaned out due to residual turbidity at 1343.

Purge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 05-14-08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid-South	EVENT: May 2008		
WELL ID: 39G03LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: Cloudy	AMBIENT TEMP: 65°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.): 11.87'	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 0950	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Nitrate, Total Iron, M.E.E., microseeps, VFAs	

MNA FIELD RESULTS

FERROUS IRON	2.96	mg/L	CHLORIDE	35	mg/L	PHOSPHORUS	2	mg/L
SULFIDE	0.106	mg/L	ALKALINITY	380	mg/L	AMMONIA-NITROGEN	2.08	mg/L
SULFATE	11	mg/L	CO_2	115	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☒ Pump Description: QED

Time (hh:mm):	1004	1009	1014	1019	1024	1029	1034					
pH (units):	6.56	6.55	6.55	6.69	6.56	6.53	6.52					
Conductivity (mS/cm):	0.800	0.806	0.804	0.802	0.801	0.795	0.791					
Turbidity (NTU):	126.5	61.1	48.0	54.1	41.7	35.7	31.1					
DO (mg/L):	2.40	1.32	0.98	0.91	0.79	0.70	0.69					
Temperature (C°):	18.74	18.77	18.75	18.76	18.75	18.70	18.69					
ORP (mV):	-55.3	-58.9	-59.5	-65.0	-59.7	-57.6	-56.7					
Volume Purged (gal):	0.30	0.50	0.70	0.90	1.10	1.30	1.50					
Depth to Water (ft):	~~0.5~~ 11.94	11.94	11.94	11.94	11.94	11.94	11.94					
La Motte (NTU)	359	209	159	131	125	128	125	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
039G03LF12	05/14/08	1045	10	Ø	

Purging/Sampling Device Decon Process:

COMMENTS:

Purge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 5/13/2008	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA - MIDSOUTH	EVENT: May 2008		
WELL ID: 039G04LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: Cloudy	AMBIENT TEMP: 75°		
REVIEWED BY:	PERSONNEL: JN, TW, LC		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START: 1235	FINISH:
DEPTH TO WATER from TOC (ft.): 13.94	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1235	FINISH: 1305
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: TOC, VOC, NITRATES, MICROSEEPS IRON, VFA	

MNA FIELD RESULTS

FERROUS IRON	3.05	mg/L	CHLORIDE	15	mg/L	PHOSPHORUS	4.33	mg/L
SULFIDE	0.158	mg/L	ALKALINITY	400	mg/L	AMMONIA-NITROGEN	2.34	mg/L
SULFATE	19	mg/L	CO_2	190	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☑ Pump Description: QED Pneumatic

Time (hh:mm):		1235	1240	1245	1250	1255	1300					
pH (units):		6.34	6.32	6.33	6.33	634	6.34					
Conductivity (mS/cm):		0.647	0.649	0.649	0.645	0.648	0.649					
Turbidity (NTU):		42.0	50.6	59.2	52.9	58.5	60.3					
DO (mg/L):		2.02	1.63	1.39	1.25	1.17	1.10					
Temperature (C°):		15.70	15.80	15.63	15.57	15.67	15.69					
ORP (mV):		-167.7	-204.1	-172.5	-170.0	-172.5	-167.1					
Volume Purged (gal):		0.4	0.5	0.6	0.8	1.0	1.1					
Depth to Water (ft):		12.95	12.95	12.95	12.95	12.95	12.95					
LAMOTTE TURB. (NTU)		54.0	48.2	54.3	62.9	78.9	68.2	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 µm)	Remarks
039G04LF 19	5/13/08	1305	12		

Purging/Sampling Device Decon Process:

COMMENTS:

Purge 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: 039 G 10 LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: Light Rain	AMBIENT TEMP: 75°		
REVIEWED BY:	PERSONNEL: JN, TW, LC		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 13.49	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: ~~1129~~ 1139	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, Nitrate, TOC, VFA, Total IRON, Microseeps	

MNA FIELD RESULTS

FERROUS IRON	0.97	mg/L	CHLORIDE	10	mg/L	PHOSPHORUS	Ø	mg/L
SULFIDE	0.022	mg/L	ALKALINITY	200	mg/L	AMMONIA-NITROGEN	0.52	mg/L
SULFATE	7	mg/L	CO_2	115	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☐ Bailer ☑ Pump Description: QED pNumatic

Time (hh:mm):	1109	1114	1119	1124	1129	1134	1139					
pH (units):	6.54	6.33	6.31	6.29	6.28	6.28	6.27					
Conductivity (mS/cm):	0.280	0.292	0.293	0.292	0.293	0.293	0.293					
Turbidity (NTU):	69.2	37.4	57.1	33.6	-9.4	-6.5	-5.3					
DO (mg/L):	2.65	2.00	1.71	1.47	1.32	1.20	1.17					
Temperature (C°):	16.12	16.42	16.39	16.37	16.54	16.60	16.68					
ORP (mV):	-274.4	-275.8	-274.0	-272.9	-273.1	-275.1	-277.8					
Volume Purged (gal):	0.5	0.6	0.9	1.2	1.4	1.7	1.9					
Depth to Water (ft):	13.80	13.80	13.80	13.80	13.80	13.87	13.87					
								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
~~5/13/2008~~	5/13/2008	1144			
039 G 10 LF 19					

Purging/Sampling Device Decon Process:

COMMENTS: Turbidity jumping around - gw is very cloudy

Purge water placed in drum#_____

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ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 5/13/2008	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA - Mid South	EVENT: May 2008		
WELL ID: 039 12 LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: Mostly Cloudy	AMBIENT TEMP: 80		
REVIEWED BY:	PERSONNEL: TW, JN, LC		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START: ~~13:40~~	FINISH:
DEPTH TO WATER from TOC (ft.): 12.35	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 13:40	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, IRON, NITRATE VFA, Microseeps (Backup)	

MNA FIELD RESULTS

FERROUS IRON	1.05	mg/L	CHLORIDE	10	mg/L	PHOSPHORUS	X	mg/L
SULFIDE	0.001	mg/L	ALKALINITY	180	mg/L	AMMONIA-NITROGEN	0.78	mg/L
SULFATE	4	mg/L	CO_2	70	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☑ Pump Description: QED pneumatic

Time (hh:mm):	1357	1402	1407	1412	1417							
pH (units):	6.05	6.07	6.08	6.09	6.09							
Conductivity (mS/cm):	0.206	0.207	0.212	0.216	0.218							
Turbidity (NTU):	-13.4	-11.7	-13.7	-12.0	-11.4							
DO (mg/L):	1.41	1.26	1.13	1.07	1.00							
Temperature (C°):	15.92	15.86	15.96	15.96	15.79							
ORP (mV):	-279.8	-276.0	-273.3	-272.8	-275.2							
Volume Purged (gal):	1.1	1.6	2.1	2.5	2.9							
Depth to Water (ft):	12.36	12.36	12.36	12.36	12.36							
								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
039612LF20	5/13/08	1422			

Purging/Sampling Device Decon Process:

COMMENTS:

Purge water placed in drum#_____

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ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 05-13-08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid-South	EVENT: May 2008		
WELL ID: 39613LS	LOCATION: SWMU-39		
WEATHER CONDITIONS: Cloudy	AMBIENT TEMP: 61°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.): 13.07'	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1022	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Nitrate, Microseeps, VFA, Total Iron	

MNA FIELD RESULTS

FERROUS IRON	0.12	mg/L	CHLORIDE	10	mg/L	PHOSPHORUS	0	mg/L
SULFIDE	0.015	mg/L	ALKALINITY	140	mg/L	AMMONIA-NITROGEN	0.39	mg/L
SULFATE	9	mg/L	CO_2	100	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☐ Bailer ☒ Pump Description: QED

Time (hh:mm):	1038	1043	1048	1053	1058	1103						
pH (units):	6.14	6.04	6.05	6.07	6.07	6.08						
Conductivity (mS/cm):	0.210	0.217	0.219	0.219	0.219	0.219						
Turbidity (NTU):	-12	-3.5	-4.8	-6.7	-8.9	-10.2						
DO (mg/L):	5.33	2.86	1.97	1.52	1.27	1.18						
Temperature (C°):	18.51	18.58	18.69	18.87	18.94	19.11						
ORP (mV):	202.8	263.6	294.4	310.3	328.1	341.3						
Volume Purged (gal):	0.20	0.40	0.60	0.80	1.00	1.20						
Depth to Water (ft):	13.14	13.14	13.14	13.14	13.14	13.14						
								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
039G13LF19	05/13/08	1110		Ø	MS/MSD

Purging/Sampling Device Decon Process:

COMMENTS: Turbidity readings consistently negative, will calibrate prior to next well. Water purged is visually clear.

Purge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 5/14/08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA-MIDSOUTH	EVENT: May 2008		
WELL ID: 039G22LF	LOCATION: NSA-South SMUG 039		
WEATHER CONDITIONS: Cloudy	AMBIENT TEMP: 75°		
REVIEWED BY:	PERSONNEL: JW, TW, LC		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 12.67	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START 0958	FINISH: ~~1032~~
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Nitrate, Microseeps, Total Iron, VFA	

MNA FIELD RESULTS

FERROUS IRON	2.47	mg/L	CHLORIDE	15	mg/L	PHOSPHORUS	∅	mg/L
SULFIDE	0.085	mg/L	ALKALINITY	400	mg/L	AMMONIA-NITROGEN	2.47	mg/L
SULFATE	11	mg/L	CO_2	190	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☐ Bailer ☑ Pump Description: QED PNEUMATIC

Time (hh:mm):	1007	1012	1017	1022	1027	1032						
pH (units):	6.32	6.34	6.35	6.36	6.36	6.36						
Conductivity (mS/cm):	0.627	0.630	0.631	0.633	0.636	0.640						
Turbidity (NTU):	43.6	33.9	30.5	30.5	33.0	29.2						
DO (mg/L):	1.51	1.08	1.02	0.84	0.85	0.84						
Temperature (C°):	15.11	15.18	15.17	15.12	15.11	15.15						
ORP (mV):	-180.4	-181.4	-173.1	-176.2	-173.3	-174.4						
Volume Purged (gal):	0.5	0.8	1.0	1.4	1.6	1.9						
Depth to Water (ft):	12.71	12.71	12.71	12.71	12.71	12.71						
								Well Goes Dry While Purging ☐				

SAMPLE DATA

☐ Bailer ☑ Pump Description: QED PNEUMATIC

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 um)	Remarks
039G22LF 11	5/13/08	1035	11		

Purging/Sampling Device Decon Process:

COMMENTS: LAMOTTE TURBIDITY READS 44.6 @ 1007; 45.5 @ 1017; 44.0 @ 1027

Purge water placed in drum#_____

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ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 2-18-09	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid-South	EVENT: Feb 2009		
WELL ID: 39-02-LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: Partly Sunny, windy	AMBIENT TEMP: 60		
REVIEWED BY:	PERSONNEL: JB, BB		

WELL DIA: 2"	WELL DEVELOPMENT		
TOTAL DEPTH from TOC (ft.):	START:	FINISH:	
DEPTH TO WATER from TOC (ft.): 14.73	VOLUME PURGED (gal):		
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING		
1 VOLUME OF WATER (gal):	START: 0926	FINISH:	
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):		
	ANALYSIS: VOC, TOC, VFA, Nitrate, Total Iron, M.E.E.		

MNA FIELD RESULTS

FERROUS IRON	0.76 (1)	mg/L	CHLORIDE	20	mg/L
SULFIDE	0.771	mg/L	ALKALINITY	~~0.91~~ 340 CRC	mg/L
SULFATE	15	mg/L	CO_2	210	mg/L
AMMONIA-NITROGEN	80	mg/L	PHOSPHORUS	8	mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☐ Bailer ☑ Pump Description: QED

Time (hh:mm):	0944	0949	0954	0959	1004	1009						
pH (units):	6.40	6.40	6.39	6.37	6.37	6.36						
Conductivity (mS/cm):	0.588	0.594	0.594	0.592	0.593	0.588						
Turbidity (NTU):	650	600	500	600	550	600						
DO (mg/L):	2.75	2.44	2.37	2.09	2.01	1.52						
Temperature (C°):	19.78	20.06	20.11	19.99	20.17	20.16						
ORP (mV):	-146.8	-149.8	-148.4	-145.8	-153.4	-159.2						
Volume Purged (gal):	0.30	0.40	0.50	0.60	0.70	0.80						
Depth to Water (ft):	14.78	14.78	14.78	14.78	14.78	14.78						

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
039G02LF15	2-18-09	1015	10	Ø	

COMMENTS:

Purge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 2-18-09	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA mid-South	EVENT: SWMU 39 Feb. 2009		
WELL ID: 39-03-LF	LOCATION:		
WEATHER CONDITIONS: Sunny, breezy	AMBIENT TEMP: 74°		
REVIEWED BY:	PERSONNEL: JB, BB		

WELL DIA: 2"	WELL DEVELOPMENT		
TOTAL DEPTH from TOC (ft.):	START: /	FINISH: /	
DEPTH TO WATER from TOC (ft.): 13.99	VOLUME PURGED (gal):		
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING		
1 VOLUME OF WATER (gal):	START: 1344	FINISH:	
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):		
	ANALYSIS: VOC, TOC, VFA, Total Iron, Nitrate,		
	M.E.E., Hydrogen		

MNA FIELD RESULTS

FERROUS IRON	3.07	mg/L	CHLORIDE	25	mg/L
SULFIDE	0.326	mg/L	ALKALINITY	440	mg/L
SULFATE	3	mg/L	CO_2	165	mg/L
AMMONIA-NITROGEN	1.82	mg/L	PHOSPHORUS	5	mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☐ Bailer ☑ Pump Description: QED

Time (hh:mm):	1350	1355	1400	1405	1410	1415	1420					
pH (units):	6.78	6.58	6.64	6.72	6.71	6.73	6.71					
Conductivity (mS/cm):	0.739	0.744	0.743	0.741	0.740	0.734	0.730					
Turbidity (NTU):	450	650	500	370	330	310	240					
DO (mg/L):	16.15	10.52	9.41	8.48	8.54	8.24	2.00					
Temperature (C°):	19.69	19.57	19.60	19.62	19.63	19.50	19.37					
ORP (mV):	-233.3	-241.7	-246.3	-241.2	-245.9	-241.7	-238.1					
Volume Purged (gal):	0.20	0.60	0.80	1.10	1.40	1.70	2.00					
Depth to Water (ft):	14.10	14.10	14.10	14.10	14.10	14.10	14.10					
								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
039G03LF15	2-18-09	1425	10	Ø	

COMMENTS:

Purge water placed in drum# On-Site tank

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 2-19-09	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid-South	EVENT: Feb 2009		
WELL ID: 39-04-LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: Sunny, breezy, cold	AMBIENT TEMP: 34°		
REVIEWED BY:	PERSONNEL: JB, BB		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START: /	FINISH: /
DEPTH TO WATER from TOC (ft.): 15.27	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 0909	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, VFA, Nitrate, Total Iron, M.E.E. Hydrogen	

MNA FIELD RESULTS

FERROUS IRON	2.14	mg/L	CHLORIDE	10	mg/L
SULFIDE	0.184	mg/L	ALKALINITY	360	mg/L
SULFATE	30	mg/L	CO_2	215	mg/L
AMMONIA-NITROGEN	2.08	mg/L	PHOSPHORUS	2	mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT ~~SAMPLING~~ ☐ Bailer ☑ Pump Description: QED

Time (hh:mm):	0918	0923	0928	0933	0938							
pH (units):	6.44	6.45	6.45	6.43	6.45							
Conductivity (mS/cm):	0.562	0.554	0.542	0.530	0.523							
Turbidity (NTU):	110	110	110	110	100							
DO (mg/L):	2.31	1.39	1.08	0.92	0.77							
Temperature (C°):	17.02	17.26	17.34	17.30	17.43							
ORP (mV):	-56.2	-53.4	-55.1	-53.9	-57.9							
Volume Purged (gal):	0.30	0.55	0.80	1.05	1.30							
Depth to Water (ft):	15.33	15.33	15.33	15.33	15.33							
								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
039G04LF22	2-19-09	0945	10	Ø	

COMMENTS:

Purge water placed in drum# On-site tank

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 02-18-09	JOB NUMBER:	PHASE:	TASK:
PROJECT: Mid South NSA	EVENT: February 2009		
WELL ID: ~~0~~ 039-610-LF	LOCATION: Millington, TN		
WEATHER CONDITIONS: Sunny, Windy	AMBIENT TEMP: ≈ 65°		
REVIEWED BY:	PERSONNEL: R. Bailey, R. M.		

WELL DIA: 2 in	~~WELL DEVELOPMENT~~	
TOTAL DEPTH from TOC (ft.):	~~START:~~	~~FINISH:~~
DEPTH TO WATER from TOC (ft.): 15.83	~~VOLUME PURGED (gal):~~	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1302	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS:	

MNA FIELD RESULTS

FERROUS IRON	0.63	mg/L	CHLORIDE	10	mg/L	PHOSPHORUS	∅ mg/L
SULFIDE	∅	mg/L	ALKALINITY	200	mg/L	AMMONIA-NITROGEN	0.39 mg/L
SULFATE	6	mg/L	CO_2	165	mg/L		mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☒ Pump Description: Bladder

Time (hh:mm):	1322	1327	1332	1337	1342							
pH (units):	6.12	6.12	6.14	6.14	6.14							
Conductivity (mS/cm):	0.312	0.311	0.309	0.306	0.303							
Turbidity (NTU):	23	8.4	5.3	5.1	4.7							
DO (mg/L):	2.30	1.05	0.75	0.60	0.50							
Temperature (C°):	20.42	20.43	20.43	20.38	20.39							
ORP (mV):	5.4	-2.2	4.0	6.1	2.7							
Volume Purged (gal):	0.75	1.50	2.25	3.00	3.75							
Depth to Water (ft):	16.50	16.50	16.50	16.50	16.50							
								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
~~039G0LF22~~	02-18-09	1350		None	
039G0LF22					

Purging/Sampling Device Decon Process:

COMMENTS:

Purge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 2-18-09	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA mid-South	EVENT: Feb. 2009		
WELL ID: 39-12-LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: Sunny, windy	AMBIENT TEMP: 70°		
REVIEWED BY:	PERSONNEL: JB, BB		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START: /	FINISH: /
DEPTH TO WATER from TOC (ft.): 14.74	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1153	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, VFA, Total Iron, Nitrate, M.E.E., Hydrogen	

MNA FIELD RESULTS

FERROUS IRON	1.59	mg/L	CHLORIDE	10	mg/L
SULFIDE	0.014	mg/L	ALKALINITY	140	mg/L
SULFATE	20	mg/L	CO_2	115	mg/L
AMMONIA-NITROGEN	0.52	mg/L	PHOSPHORUS	Ø	mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☑ Pump Description: QED

Time (hh:mm):	1158	1203	1208	1213	1218							
pH (units):	6.29	6.06	6.06	6.13	6.09							
Conductivity (mS/cm):	0.215	0.211	0.210	0.208	0.206							
Turbidity (NTU):	23.00	9.40	5.70	4.40	4.10							
DO (mg/L):	32.66	5.95	2.22	1.63	1.40							
Temperature (C°):	19.84	19.92	19.89	19.88	19.86							
ORP (mV):	-176.1	-190.6	-189.9	-187.5	-186.6							
Volume Purged (gal):	0.25	0.60	0.85	1.10	1.35							
Depth to Water (ft):	14.72	14.72	14.72	14.72	14.72							
								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
039G12LF23	2-18-09	1225	10	Ø	

COMMENTS:

Purge water placed in drum# On-Site Tank

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 2/18/09	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA	EVENT: Feb 2009		
WELL ID: ~~[illegible]~~ 039613LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: Sunny, breezy	AMBIENT TEMP: 60°F		
REVIEWED BY:	PERSONNEL: RB, RM		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 15.43	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 09:37	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOCs, TOCs, nitrate, total iron, VFAs, HMEE, MNA	

MNA FIELD RESULTS

FERROUS IRON	0.04	mg/L	CHLORIDE	10	mg/L	Phosphorus	0 mg/L
SULFIDE	0.022	mg/L	ALKALINITY	140	mg/L	Ammonia Nitrogen	0.52 mg/L
SULFATE	1.0	mg/L	CO_2	130	mg/L		mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☐ Bailer ☒ Pump Description: Bladder

Time (hh:mm):	1000	1005	1010	1015	1020						
pH (units):	6.20	6.20	6.18	6.16	6.18						
Conductivity (mS/cm):	0.217	0.220	0.221	0.220	0.218						
Turbidity (NTU):	2.9	2.3	2.0	2.1	2.6						
DO (mg/L): Horiba											
YSI	3.99	2.33	2.34	2.09	1.80						
Temperature (C°):	20.43	20.74	20.61	20.55	20.73						
ORP (mV):	-12.5	-14.9	-9.7	-7.3	-5.0						
Volume Purged (gal):	0.25	0.35	0.45	0.55	0.65						
Depth to Water (ft):	15.40	15.40	15.40	15.40	15.40						
Orion ORP: mV	~~[illegible]~~										
E_H											
Rel mV											
								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
039613LF22	02-18-09	1025		None	

Purging/Sampling Device Decon Process:

COMMENTS:

Purge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 02-19-09	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA MidSouth	EVENT: February 2009		
WELL ID: 039-622-LF	LOCATION: Millington, TN		
WEATHER CONDITIONS: Cold, breezy	AMBIENT TEMP: ≈ 35°		
REVIEWED BY:	PERSONNEL: R.B, RM		

WELL DIA: 2in	~~WELL DEVELOPMENT~~	
TOTAL DEPTH from TOC (ft.):	~~START:~~	~~FINISH:~~
DEPTH TO WATER from TOC (ft.): 14.61	~~VOLUME PURGED (gal):~~	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 0912	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Microseeps, VFA, Nitrate, Total Fe, hydrogen,	

MNA FIELD RESULTS

FERROUS IRON	2.93	mg/L	CHLORIDE	15	mg/L
SULFIDE	0.254	mg/L	ALKALINITY	560	mg/L
SULFATE	24	mg/L	CO_2	185	mg/L
AMMONIA-NITROGEN	0.68	mg/L	PHOSPHORUS	∅	mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☒ Pump Description: QED Bladder

Time (hh:mm):	0930	0935	0940	0945	0950							
pH (units):	6.43	6.39	6.34	6.35	6.34							
Conductivity (mS/cm):	0.639	0.637	0.624	0.651	0.663							
Turbidity (NTU):	300	400	450	400	370							
DO (mg/L):	1.00	1.04	0.66	0.61	0.60							
Temperature (C°):	17.93	18.07	18.20	18.18	18.24							
ORP (mV):	-207.3	-191.7	-182.3	-177.0	-170.0							
Volume Purged (gal):	1.50	2.0	2.75	3.50	4.00							
Depth to Water (ft):	15.10	15.23	15.17	15.17	15.12							

Well Goes Dry While Purging ☐

Sample Data

☐ Bailer ☒ Pump Description: QED Bladder

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Remarks
039622LF15	02-19-09	0955		None	

COMMENTS: Note: purge water had green olive look.

Purge water placed in drum#_____

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ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 08/26/08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA MidSouth	EVENT: August 2008		
WELL ID: 39-02-LF	LOCATION: SWMU 39		
WEATHER CONDITIONS:	AMBIENT TEMP:		
REVIEWED BY:	PERSONNEL: B.S., B.B.		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 17.51	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 0947	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Microseeps, Nitrate, VFA, Total Iron	

MNA FIELD RESULTS

FERROUS IRON	2.75 (1)	mg/L	CHLORIDE	20	mg/L	PHOSPHORUS	2	mg/L
SULFIDE	0.05	mg/L	ALKALINITY	340	mg/L	AMMONIA-NITROGEN	1.3	mg/L
SULFATE	75	mg/L	CO_2	190	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☒ Pump Description: BLADDER (QED)

Time (hh:mm):	1045	1050	1055	1100	1105	1110	1115	1120	1125			
pH (units):	6.20	6.24			6.35	6.36	6.36	6.38	6.39			
Conductivity (mS/cm):	0.789	0.785			0.787	0.785	0.785	0.774	0.794			
Turbidity (NTU):	531	516			553	479	401	277	142			
DO (mg/L):	1.64	1.30			1.38	1.06	1.00	0.97	0.97			
Temperature (C°):	23.44	23.57			24.14	23.74	23.80	24.31	24.87			
ORP (mV):	-20.1	-24.0			-30.0	-31.1	-31.1	-35.2	-42.5			
Volume Purged (gal):	2.20	2.35			2.80	2.95	3.10	3.25	3.40			
Depth to Water (ft):	17.57	17.57			17.57	17.57	17.57	17.57	17.57			
								Well Goes Dry While Purging ☐				

SAMPLE DATA

☐ Bailer ☒ Pump Description: QED Pneumatic

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 um)	Remarks
039G02LF13	8-26-08	1135		Ø	

Purging/Sampling Device Decon Process:

COMMENTS: Water very turbid. 1051: Empty YSI flow thru cell.

Purge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 8/26/08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid South	EVENT: Aug 08		
WELL ID: 039-03-LF	LOCATION: ~~SWMU 39~~ SWMU 39		
WEATHER CONDITIONS: Sunny, windy	AMBIENT TEMP: 85°		
REVIEWED BY:	PERSONNEL: TW, PG		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 16.61	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1317	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Nitrates, IRON, microseeps VFA	

MNA FIELD RESULTS

FERROUS IRON	1.37 (1)	mg/L	CHLORIDE	40	mg/L	PHOSPHORUS	1.67	mg/L
SULFIDE	0.45	mg/L	ALKALINITY	480	mg/L	AMMONIA-NITROGEN	1.3	mg/L
SULFATE	2	mg/L	CO_2	185	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☐ Bailer ☒ Pump Description: QED Pneumatic

Time (hh:mm):	1329	1334	1339	1344	1349							
pH (units):	6.67	6.71	6.64	6.71	6.70							
Conductivity (mS/cm):	0.856	0.856	0.856	0.856	0.854							
Turbidity (NTU):	195	167	150	169	181							
DO (mg/L):	1.07	0.54	0.42	0.36	0.35							
Temperature (C°):	20.15	20.28	20.31	20.03	19.94							
ORP (mV):	-92.2	-96.6	-98.2	-98.2	-97.9							
Volume Purged (gal):	0.5	1.2	1.8	2.25	3.4							
Depth to Water (ft):	16.87	16.87	16.87	16.87	16.87							
								Well Goes Dry While Purging ☐				

SAMPLE DATA

☐ Bailer ☒ Pump Description: Pneumatic QED

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 um)	Remarks
039-03LF13	8/26/08	1354			

Purging/Sampling Device Decon Process:

COMMENTS: microseeps 198 mL 20 min. start time 1407

Purge water placed in drum#_____

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ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 8/26/08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA MID SOUTH	EVENT: AUG 08		
WELL ID: 039-04-LF	LOCATION: ~~SWMU~~ 39 SWMU 39		
WEATHER CONDITIONS: Cloudy, windy	AMBIENT TEMP: 80°		
REVIEWED BY:	PERSONNEL: TW / PL		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 17.81	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1450	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Nitrates, IRON, Microseeps VFA	

MNA FIELD RESULTS

FERROUS IRON	2.18 (2)	mg/L	CHLORIDE	15	mg/L	PHOSPHORUS	2	mg/L
SULFIDE	0.24	mg/L	ALKALINITY	440	mg/L	AMMONIA-NITROGEN	2.6	mg/L
SULFATE	7	mg/L	CO_2	265	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☐ Bailer ☒ Pump Description: Pneumatic pump

Time (hh:mm):	1505	1510	1515	1520	1525							
pH (units):	6.04	5.83	5.87	6.20								
Conductivity (mS/cm):	0.754	0.751	0.753	0.751								
Turbidity (NTU):	81.2	91.8	101	94.3								
DO (mg/L):	2.06	1.48	1.30	1.31								
Temperature (C°):	20.33	20.15	20.07	20.09								
ORP (mV):	-32.8	-26.6	-47.7	-53.2								
Volume Purged (gal):	1.0	1.4	2.0	2.6								
Depth to Water (ft):	17.89	17.89	17.89	17.89								

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
039604LP20	8/26/08	1530			

Purging/Sampling Device Decon Process:

COMMENTS: microseeps 181 mL 20m. start time 1537

TW accidentally recorded only four readings

Purge water placed in drum#_____

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ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 8-26-08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA mid-South	EVENT: August 2008		
WELL ID: 39-10-LF	LOCATION: SWMU-39		
WEATHER CONDITIONS: mostly cloudy	AMBIENT TEMP:		
REVIEWED BY:	PERSONNEL: B. Bister & B. Shankle		

WELL DIA: 2"	WELL DEVELOPMENT		
TOTAL DEPTH from TOC (ft.):	START:	FINISH:	
DEPTH TO WATER from TOC (ft.): 18.53'	VOLUME PURGED (gal):		
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING		
1 VOLUME OF WATER (gal):	START: 1311	FINISH:	
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):		
	ANALYSIS: VOC, TOC, VFA, Nitrate, Total Iron, M.E.E., Hydrogen		

MNA FIELD RESULTS

FERROUS IRON	0.72	mg/L	CHLORIDE	5	mg/L	PHOSPHORUS	8	mg/L
SULFIDE	0.01	mg/L	ALKALINITY	200	mg/L	AMMONIA-NITROGEN	0.55	mg/L
SULFATE	48	mg/L	CO_2	160	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT ~~SAMPLING~~ ☐ Bailer ☑ Pump Description: ~~Peristo~~ QED

Time (hh:mm):	1332	1337	1342	1347	1352							
pH (units):	4.73	4.83	5.51	5.89	5.67							
Conductivity (mS/cm):	0.399	0.381	0.396	0.379	0.394							
Turbidity (NTU):	78.6	57.7	37.5	26.3	17.1							
DO (mg/L):	2.76	1.82	1.42	1.23	1.10							
Temperature (C°):	22.84	22.97	23.21	23.82	22.81							
ORP (mV):	100.1	95.9	59.2	37.1	47.6							
Volume Purged (gal):	0.45	0.55	0.65	0.80	0.90							
Depth to Water (ft):	18.70	18.70	18.70	18.70	18.70							
								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
039G10LF20	8-26-08	1400	10	Ø	
039G10LF20MS	8-26-08	1400	3	Ø	MS
039G10LF20MSD	8-26-08	1400	3	Ø	MS/MSD

Purging/Sampling Device Decon Process:

COMMENTS:

Purge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 8-26-08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA MidSouth	EVENT: AUGUST 08		
WELL ID: 039-12LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: overcast 84°F	AMBIENT TEMP: 84°F		
REVIEWED BY:	PERSONNEL: WATSON/GENTRY		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 17.38	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1140	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, NITRATES, IRON, microseeps VFA	

MNA FIELD RESULTS

FERROUS IRON	1.25	mg/L	CHLORIDE	10	mg/L	PHOSPHORUS	Ø	mg/L
SULFIDE	0.01	mg/L	ALKALINITY	160	mg/L	AMMONIA-NITROGEN	0.42	mg/L
SULFATE	2	mg/L	CO_2	145	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☐ Bailer ☒ Pump Description: ~~pneumatic~~ pneumatic

Time (hh:mm):	11:46	11:51	11:56	12:01	12:06							
pH (units):	5.64	5.77	5.94	5.88	5.96							
Conductivity (mS/cm):	0.237	0.236	0.237	0.242	0.250							
Turbidity (NTU):	2.70	3.43	2.31	1.47	0.60							
DO (mg/L):	1.55	0.75	0.60	0.49	0.50							
Temperature (C°):	20.42	20.36	20.25	20.12	20.08							
ORP (mV):	27.6	20.9	07.3	9.3	3.7							
Volume Purged (gal):	0.6	1.1	1.4	1.9	2.4							
Depth to Water (ft):	17.38	17.38	17.38	17.38	17.38							
								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 µm)	Remarks
039G12LF21	8/26/08	12:10			

Purging/Sampling Device Decon Process:

COMMENTS: microseeps ~~[illegible]~~ 120 mL 30 ~~[illegible]~~ min
12:27 start time microseeps

Purge water placed in drum#_____

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ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 8/26/08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA MID SOUTH	EVENT: AUG 08		
WELL ID: 0396039-13-LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: Cloudy windy	AMBIENT TEMP: 78°		
REVIEWED BY:	PERSONNEL: TW, PG		

WELL DIA: 2"	**WELL DEVELOPMENT**	
TOTAL DEPTH from TOC (ft.):	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 18.07	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	**GROUNDWATER SAMPLING**	
1 VOLUME OF WATER (gal):	START: 0950	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Nitrate, SEROM, VFA, microscops	

MNA FIELD RESULTS

FERROUS IRON	0.07	mg/L	CHLORIDE	10	mg/L	PHOSPHORUS	Q	mg/L
SULFIDE	0.00	mg/L	ALKALINITY	120	mg/L	AMMONIA-NITROGEN	0.65	mg/L
SULFATE	1	mg/L	CO_2	115	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☐ Bailer ☑ Pump Description: QED Pneumatic

Time (hh:mm):	0958	1003	1008	1013	1018	1023	1028					
pH (units):	4.71	5.17	5.72	5.94	5.98	6.05	6.09					
Conductivity (mS/cm):	0.238	0.240	0.240	0.240	0.239	0.240	0.239					
Turbidity (NTU):	2.62	0.98	1.69	1.39	0.62	1.78	0.46					
DO (mg/L):	55.0	18.0	13.3	11.3	0.85	0.74	0.67					
Temperature (C°):	21.34	21.13	21.04	21.03	21.00	21.17	21.25					
ORP (mV):	141.3	125.0	110.6	94.3	106.4	97.8	97.0					
Volume Purged (gal):	0.2	0.4	0.6	0.9	1.1	1.45	1.65					
Depth to Water (ft):	18.15	18.15	18.15	18.15	18.15	18.15	18.15					
~~Doing~~								Well Goes Dry While Purging ☐				

SAMPLE DATA

☐ Bailer ☑ Pump Description: QED Pneumatic

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 um)	Remarks
039613LF20	8/26/08	1033			

Purging/Sampling Device Decon Process:

COMMENTS: DO 1st 4 readings were in DO percent.
microscops 130 mL 25 min microscops start 10:48
1018-1028 DO is recorded properly in mg/L + not %

Purge water placed in drum#_____

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ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 8-26-08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA MidSouth	EVENT: August 2008		
WELL ID: 39-22-LF	LOCATION: SWMU-~~TH~~ 39		
WEATHER CONDITIONS: Partly Cloudy	AMBIENT TEMP:		
REVIEWED BY:	PERSONNEL: B. Brister & B. Shaakle		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 17.61	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START:	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Total Iron, Nitrate, Microseeps	

MNA FIELD RESULTS

FERROUS IRON	1.38 (1)	mg/L	CHLORIDE	15	mg/L	PHOSPHORUS	2	mg/L
SULFIDE	0.66 (3)	mg/L	ALKALINITY	440	mg/L	AMMONIA-NITROGEN	0.55	mg/L
SULFATE	18	mg/L	CO_2	270	mg/L		precipitate forming	mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT ~~SAMPLING~~ ☐ Bailer ☒ Pump Description: QED

Time (hh:mm):	1500	1505	1510	1515	1520	1525	1530	1535				
pH (units):	6.59	6.45	5.85	5.59	5.70	5.97	5.99	6.16				
Conductivity (mS/cm):	0.767	0.852	0.891	0.899	0.900	0.901	0.899	0.901				
Turbidity (NTU):	49.2	97.8	137.0	149.0	174.0	240.0	329.0	405				
DO (mg/L):	8.04	4.00	2.94	1.72	1.26	1.52	1.32	1.63				
Temperature (C°):	21.78	22.36	21.27	21.00	20.92	20.91	20.88	20.90				
ORP (mV):	-46.4	-41.2	-6.6	1.7	-6.4	-24.7	-27.6	-36.2				
Volume Purged (gal):	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90				
Depth to Water (ft):	17.60	17.60	17.60	17.60	17.60	17.60	17.60	17.60				
								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
039G22LF13	8-26-08	1540	10	Ø	

Purging/Sampling Device Decon Process:

COMMENTS: 160 mL/min = 20 min.

Extremely turbid sample

Purge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 11-11-08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid-South	EVENT: November 2008		
WELL ID: 39-02-LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: Cloudy, Cool, Breezy	AMBIENT TEMP: 50		
REVIEWED BY:	PERSONNEL: R. Moody, B. Brister		

WELL DIA: 2"	**WELL DEVELOPMENT**	
TOTAL DEPTH from TOC (ft.):	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 18.77	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	**GROUNDWATER SAMPLING**	
1 VOLUME OF WATER (gal):	START: 1131	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Total Iron, M.E.E., Nitrate	

MNA FIELD RESULTS

FERROUS IRON	2.71 (i)	mg/L	CHLORIDE	20	mg/L	PHOSPHORUS	Q	mg/L
SULFIDE	0.037	mg/L	ALKALINITY	320	mg/L	AMMONIA-NITROGEN	1.3	mg/L
SULFATE	13	mg/L	CO_2	165	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☒ Pump Description: QED / YSI

Time (hh:mm):	1220	1225	1230	1235	1240							
pH (units):	6.48	6.46	6.46	6.46	6.48							
Conductivity (mS/cm):	0.593	0.592	0.591	0.586	0.588							
Turbidity (NTU) Lahotte	317	320	292	227	127							
DO (mg/L):	0.60	0.51	0.48	0.43	0.52							
Temperature (C°):	19.08	19.10	19.07	19.04	19.04							
ORP (mV):	-46.6	-46.9	-46.6	-46.9	-46.8							
Volume Purged (gal):	1.1	1.6	1.9	2.3	2.7							
Depth to Water (ft):	18.94	18.94	18.94	18.94	18.94							
								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
039G02LF14	11-11-08	1245	10	Ø	

Purging/Sampling Device Decon Process:

COMMENTS:

Purge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 11-12-08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid-South	EVENT: November 2008		
WELL ID: 39-03-LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: Cloudy, light rain	AMBIENT TEMP: 58°		
REVIEWED BY:	PERSONNEL: LC, RM, BB		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START: /	FINISH: /
DEPTH TO WATER from TOC (ft.): 17.93	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: B.B. 1212	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, MEE, Nitrate, Total Iron,	
	VFAs, Hydrogen ATP vial	

MNA FIELD RESULTS

FERROUS IRON	2.28	mg/L	CHLORIDE	35	mg/L
SULFIDE	0.060	mg/L	ALKALINITY	420	mg/L
SULFATE	5	mg/L	CO_2	150	mg/L
AMMONIA-NITROGEN	1.3	mg/L	PHOSPHORUS	Ø	mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT ~~SAMPLING~~ ☐ Bailer ☑ Pump Description: QED / YSI

Time (hh:mm):	1225	1230	1235	1240	1245							
pH (units):	6.77	6.77	6.76	6.76	6.76							
Conductivity (mS/cm):	0.775	0.776	0.775	0.775	0.774							
Turbidity (NTU) Lamotte	143.0	110.0	108.8	104.7	98.6							
DO (mg/L):	1.41	0.94	0.92	0.90	0.84							
Temperature (C°):	19.80	18.83	18.81	18.86	18.89							
ORP (mV):	-95.5	-92.5	-94.6	-95.6	-97.2							
Volume Purged (gal):	0.80	1.40	1.70	2.20	2.50							
Depth to Water (ft):	18.0	18.0	18.0	18.0	18.0							
									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 µm)	Remarks
039G03LF14	11-12-08	1250	11	Ø	

COMMENTS:

Purge water placed in drum# Tank

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 11/12/08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid South	EVENT: Nov 2008		
WELL ID: 39-4-LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: Cloudy Rain, Cool	AMBIENT TEMP: 50		
REVIEWED BY:	PERSONNEL: RA, JB		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START: /	FINISH: /
DEPTH TO WATER from TOC (ft.): 19.14	VOLUME PURGED (gal): /	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1246	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Microseeps, Nitrate, Total Iron	

MNA FIELD RESULTS

FERROUS IRON	2.64	mg/L	CHLORIDE	15	mg/L
SULFIDE	0.160	mg/L	ALKALINITY	420	mg/L
SULFATE	9	mg/L	CO_2	185	mg/L
AMMONIA-NITROGEN	1.95	mg/L	PHOSPHORUS	Ø	mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT ~~SAMPLING~~ ☐ Bailer ☒ Pump Description: QED Bladder

Time (hh:mm):	1258	1303	1308	1313	1318							
pH (units):	6.43	6.43	6.42	6.42	6.42							
Conductivity (mS/cm):	0.696	0.697	0.695	0.697	0.699							
Turbidity (NTU):	54.7	64.2	68.5	70	71.4							
DO (mg/L):	1.14	0.80	0.60	0.55	0.48							
Temperature (C°):	18.45	18.61	18.76	18.82	18.82							
ORP (mV):	-60.0	-64.7	-68.1	-69.7	-68.4							
Volume Purged (gal):	0.65	0.80	1.0	1.2	1.45							
Depth to Water (ft):	19.17	19.17	19.17	19.17	19.17							

Well Goes Dry While Purging ☐

Sample Data

☐ Bailer ☒ Pump Description: QED Bladder

Sample ID	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Remarks
039604LF21	11/12/08	1325	11	—	

COMMENTS:

Purge water placed in drum#_____

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ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 11/12/2008	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA MIDSOUTH	EVENT: November 2008		
WELL ID: 039G10LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: rainy	AMBIENT TEMP: 58°		
REVIEWED BY:	PERSONNEL: LC, RM, BB		

WELL DIA: 2"	WELL DEVELOPMENT		
TOTAL DEPTH from TOC (ft.):	START:	FINISH:	
DEPTH TO WATER from TOC (ft.):	VOLUME PURGED (gal):		
LENGTH OF WATER COL. (ft.): 19.80	GROUNDWATER SAMPLING		
1 VOLUME OF WATER (gal):	START: 0958	FINISH:	
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal): 3.30		
	ANALYSIS: VOC, TOC, NITRATE, VFA, MICROSEEPS		

MNA FIELD RESULTS

FERROUS IRON	0.59	mg/L	CHLORIDE	15	mg/L
SULFIDE	0.028	mg/L	ALKALINITY	180	mg/L
SULFATE	7	mg/L	CO_2	60	mg/L
AMMONIA-NITROGEN	0.52	mg/L	PHOSPHORUS	Q	mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☑ Pump Description: QED PNEUMATIC

Time (hh:mm):	1006	1011	1016	1021	1026							
pH (units):	6.21	6.20	6.20	6.20	6.19							
Conductivity (mS/cm):	0.310	0.314	0.315	0.314	0.313							
Turbidity (NTU) Lowest	59.8	15.7	4.51	0.38	0.78							
DO (mg/L):	4.0	1.49	1.08	1.01	0.97							
Temperature (C°):	19.93	20.04	20.07	20.13	20.08							
ORP (mV):	0.9	-15.1	-10.2	-3.8	-1.0							
Volume Purged (gal):	0.5	0.9	1.4	2.0	2.5							
Depth to Water (ft):	20.43	20.43	20.45	20.44	20.46							
									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 µm)	Remarks
039G10LF21	11/12/08	1030	11	Ø	

COMMENTS:

Purge water placed in drum# Tank

0.4 1.2 1.2

1.4 2.2 4.2 17.2

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 11-11-08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid South	EVENT: November 2008		
WELL ID: 39-12-LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: Cloudy, Light Rain	AMBIENT TEMP: 56°F		
REVIEWED BY:	PERSONNEL: R.A. & B.B.		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START: /	FINISH: /
DEPTH TO WATER from TOC (ft.): 18.73	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, Nitrate, VFA, Microscope	

MNA FIELD RESULTS

FERROUS IRON	27	mg/L	CHLORIDE	10	mg/L	PHOSPHORUS	X mg/L
SULFIDE	0.015	mg/L	ALKALINITY	140	mg/L	AMMONIA-NITROGEN	0.26 mg/L
SULFATE	7	mg/L	CO_2	85	mg/L		mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☒ Pump Description: Bladder

Time (hh:mm):	1505	1510	1515	1520	1525							
pH (units):	6.24	6.26	6.26	6.27	6.28							
Conductivity (mS/cm):	0.219	0.227	0.231	0.236	0.240							
Turbidity (NTU):	2.31	1.81	0.60	0.60	0.61							
DO (mg/L):	3.68	2.96	1.48	0.87	0.83							
Temperature (C°):	19.12	19.17	19.17	19.17	19.11							
ORP (mV):	-30.7	-28.3	-28.9	-25.7	-23.8							
Volume Purged (gal):	0.90	1.50	2.10	2.75	3.45							
Depth to Water (ft):	18.73	18.73	18.73	18.73	18.73							
								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
039G12LF22	11/11/08	1530		—	

Purging/Sampling Device Decon Process:

COMMENTS:

Purge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 11-11-08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mid South	EVENT: November 2008		
WELL ID: 39-13-LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: Cool Cloudy	AMBIENT TEMP: 55°F		
REVIEWED BY:	PERSONNEL: RA. & JB		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 19.39	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1222	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Nitrate, VFA, Microseeps	

MNA FIELD RESULTS

FERROUS IRON	0.18	mg/L	CHLORIDE	10	mg/L	PHOSPHORUS	Q	mg/L
SULFIDE	~~.033~~ 0.016	mg/L	ALKALINITY	120	mg/L	AMMONIA-NITROGEN	0.26	mg/L
SULFATE	~~33~~ 9	mg/L	CO_2	60	mg/L			mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT (SAMPLING) ☐ Bailer ☑ Pump Description: Bladder

Time (hh:mm):	1238	1243	1248	1253	1258	1303						
pH (units):	6.27	6.24	6.24	6.24	6.23	6.23						
Conductivity (mS/cm):	0.225	0.228	0.229	0.229	0.229	0.229						
Turbidity (NTU):	25.8	22.5	20.2	16.3	12.0	13.1						
DO (mg/L):	3.76	1.25	1.11	1.04	1.02	0.99						
Temperature (C°):	19.60	19.67	19.71	19.80	19.72	19.81						
ORP (mV):	7.3	16.3	25.5	33.8	35.4	35.1						
Volume Purged (gal):	0.5	0.8	1.1	1.4	1.7	2.0						
Depth to Water (ft):	19.52	19.52	19.52	19.52	19.52	19.52						
								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
039G13LF21	11/11/08	1310	~~10~~ 11	—	
039H13LF21MS	11/11/08	1310	6	—	

Purging/Sampling Device Decon Process:

COMMENTS: Microseeps 200 ml/min (20 min)

Purge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 11-12-08	JOB NUMBER:	PHASE:	TASK:
PROJECT: NSA Mud South	EVENT: November 2008		
WELL ID: 39-22-LF	LOCATION: SWMU 39		
WEATHER CONDITIONS: Rain	AMBIENT TEMP:		
REVIEWED BY:	PERSONNEL: R.A., JN, JB		

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.):	START: /	FINISH: /
DEPTH TO WATER from TOC (ft.): 18.88	VOLUME PURGED (gal): /	
LENGTH OF WATER COL. (ft.):	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal):	START: 1014	FINISH:
3 VOLUMES OF WATER (gal):	VOLUME PURGED (gal):	
	ANALYSIS: VOC, TOC, Nitrate, Total Iron, M.E.E.	

MNA FIELD RESULTS

FERROUS IRON	3.13	mg/L	CHLORIDE	15	mg/L
SULFIDE	0.229	mg/L	ALKALINITY	420	mg/L
SULFATE	11	mg/L	CO_2	170	mg/L
AMMONIA-NITROGEN	1.82	mg/L	PHOSPHORUS	Q	mg/L

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☐ Bailer ☒ Pump Description: Bladder

Time (hh:mm):	1030	1035	1040	1045	1050							
pH (units):	6.35	6.35	6.35	6.35	6.35							
Conductivity (mS/cm):	0.657	.653	0.652	0.655	.656							
Turbidity (NTU):	80.7	84.7	89.9	85.3	90.5							
DO (mg/L):	1.07	1.00	0.92	0.85	0.81							
Temperature (C°):	16.30	16.17	16.29	16.37	16.25							
ORP (mV):	-58.6	-56.4	-55.1	-54.1	-51.6							
Volume Purged (gal):	0.40	0.60	0.70	0.80	0.90							
Depth to Water (ft):	18.90	18.90	18.90	18.90	18.90							
									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
039G22LF14	11-12-08	1055	11	—	

COMMENTS:

Purge water placed in drum#_____