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2008 INTERIM MEASURES PROGRESS REPORT
SWMU 14/46

NAVAL SUPPORT ACTIVITY MID-SOUTH
MILLINGTON, TENNESSEE

Revision: 0

Prepared for:

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

Prepared by:

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June 6, 2008

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Engineering & Environmental Services

June 6, 2008

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Subject: NSA Mid-South, SWMU 14/46, Millington, Tennessee

Document Transmittal — 2008 Interim Measures Progress Report — SWMU 14/46 — *NSA Mid-South; Revision 0, June 6, 2008*

Dear Sir:

This letter is provided to document submittal of the *2008 Interim Measures Progress Report — SWMU 14/46 – NSA Mid-South; Revision 0, June 6, 2008.* If you have any questions or need any additional information, please do not hesitate to contact me.

Sincerely,

Paul H. Gentry

Paul Gentry
Project Manager

Enclosure – 1 copy

Cc: *Greg Fraley – USEPA*
Roger Donovan – TDEC
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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
PCE	perchloroethylene/tetrachloroethene
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 progress of interim measures (IMs) for Solid Waste Management Unit (SWMU) 14/46. IMs for this site address tetrachloroethylene (PCE) and trichloroethylene (TCE) contamination in loess groundwater beneath Naval Support Activity Mid-South. These IMs consist of two parts:

- Enhanced bioremediation to mitigate hazards and threats to human health and the environment from the most contaminated locations within SWMU 14/46.

- Monitored natural attenuation (MNA) as the long-term remedy for less contaminated parts of the plume.

As part of IMs, substrate injection wells were installed at selected locations within the plume for purposes of introducing a carbon substrate into the groundwater unit to stimulate the reductive dechlorination of chlorinated solvents. Additionally, groundwater monitoring wells were also installed to provide sufficient data to better evaluate remediation effectiveness. Monthly substrate injections began on February 2, 2005 and continue monthly.

Results from quarterly effectiveness monitoring indicate the introduction of sodium acetate and diammonium phosphate has triggered reductive dechlorination of PCE and TCE at some locations at SWMU 14/46. Between the October 2006 and January 2007 monitoring events, monitoring well 014G02LS has shown a significant decrease in both PCE and TCE concentrations, which have generally continued through 2007 and February 2008. The decrease in PCE and TCE concentrations was followed by a rise in cis-1,2-dichloroethylene (cis-1,2-DCE) concentrations, increasing to a maximum of 200 micrograms per liter (µg/L) in August 2007, suggesting reductive dechlorination processes. As degradation processes have continued, cis-1,2-DCE concentrations have subsequently decreased to less than 40 µg/L. Vinyl chloride concentrations remain below detectable levels.

Changes in 014G14LS have been less pronounced. TCE concentrations appear to fluctuate generally between 32 µg/L and 100 µg/L; cis-1,2-DCE concentrations remain within the same range, and appear to be tracking closely with TCE. Review of geochemical data suggest that conditions within this well are not sufficiently anaerobic to favor reductive dechlorination.

Based on the results during the IMs monitoring, EnSafe recommends reviewing the following elements to improve degradation near 014G02LS and 014G14LS:

- **Assess injection techniques:** Review the distribution of total organic carbon (TOC) relative to injection times and quantities. Initial data review suggests that injections do not result in an immediate increase in TOC within the treatment zone. Slow travel times in the loess may limit migration of the carbon substrate in the treatment zone. Alternate injection techniques (e.g., direct-push technology) may need to be reviewed to enhance delivering substrate to the target zone.

- **Injection well locations:** Given low transport velocities in the loess, closer injection spacing of wells may be required to ensure timely delivery of substrate to all treatment zones.

- **Microbial population:** A microbial profile should be obtained from 014G02LS and 014G14LS, and analyzed for the presence of *Dehaloccocoides*, sulfur-reducing bacteria, methanogens, and methanotrophs.[1] Assessment of aerobic bacteria should also be considered. Actions to stimulate dechlorinating bacteria (up to and including bioaugmentation) should be evaluated.

- **Carbon substrate requirements/type:** Acetate-based remediation systems typically release TOC rapidly into the subsurface. If aquifer conditions favor microbial populations other than dechlorinating bacteria, TOC consumption could be driven by aerobes, iron-reducers, or other microbial consortia. In addition, given the slow travel times in the loess, TOC consumption may occur within 1 to 2 feet of the injection location, with little to no substrate migrating to downgradient locations. An assessment of the quantity of substrate, as well as the type of substrate (e.g., a slow-release compound such as Hydrogen Release Compound or Emulsified Oil Substrate) may be preferable.

- **Potential impacts from fluctuations in the water table:** At SWMU 14/46, the loess water table fluctuates roughly 8 to 10 feet between wet season (winter/spring) and dry season (summer/fall) conditions. As reductive dechlorination occurs in the aqueous phase, coordination of injections with seasonal high water table conditions may be required to maximize carbon substrate distribution (via dissolution and diffusion) in the treatment zone.

In the interim, substrate injections (both quantity and frequency) should continue monthly as currently designed. The sampling frequency and analysis should remain the same to observe volatile organic compound and geochemical trends.

[1] Additional parameters should be considered following discussions with the microbial laboratory.

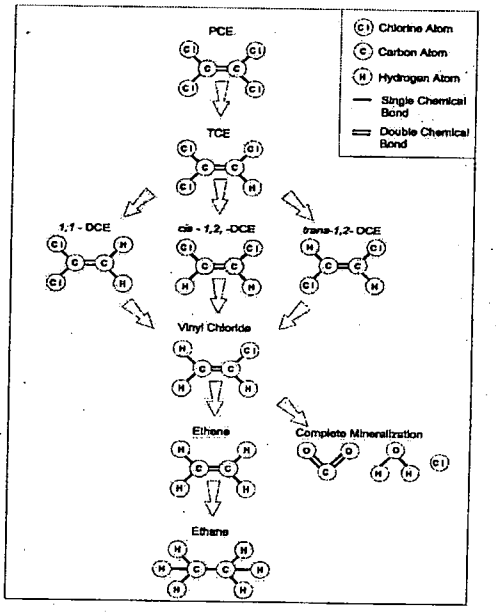
1.0 INTRODUCTION

This is the fourth interim measures (IMs) progress report submitted for Solid Waste Management Unit (SWMU) 14/46 since a remedy was implemented in February 2005 to address trichloroethylene (TCE) and perchloroethylene (PCE) in loess groundwater at Naval Support Activity Mid-South (NSA Mid-South). These IMs consist of two parts:

- Enhanced bioremediation designed to mitigate hazards and threats to human health and the environment from the most contaminated locations within SWMU 14/46.
- Monitored natural attenuation (MNA) is being implemented as the long-term remedy.

The design, construction, and operation and maintenance requirements for an enhanced bioremediation system at SWMU 14/46 are presented in the *Interim Measures Work Plan — SWMU 14/46* (EnSafe, October 2004)[1].

This annual progress report provides an update of the remedial and monitoring activities for the period between May 2007 and February 2008. Figure 1-1, a topographic map of the facility and the surrounding area, shows the NSA Mid-South Northside and Southside base boundaries that were in place before property transfer in January 2000, as well as the location of SWMUs 14 and 46. These SWMUs have been historically investigated together and are considered as one area for treatment purposes, namely SWMU 14/46. SWMU 46 is a former hazardous waste accumulation point. SWMU 14 is the former Building S-140 which housed a paint spray booth and a paint-removing wash down area.



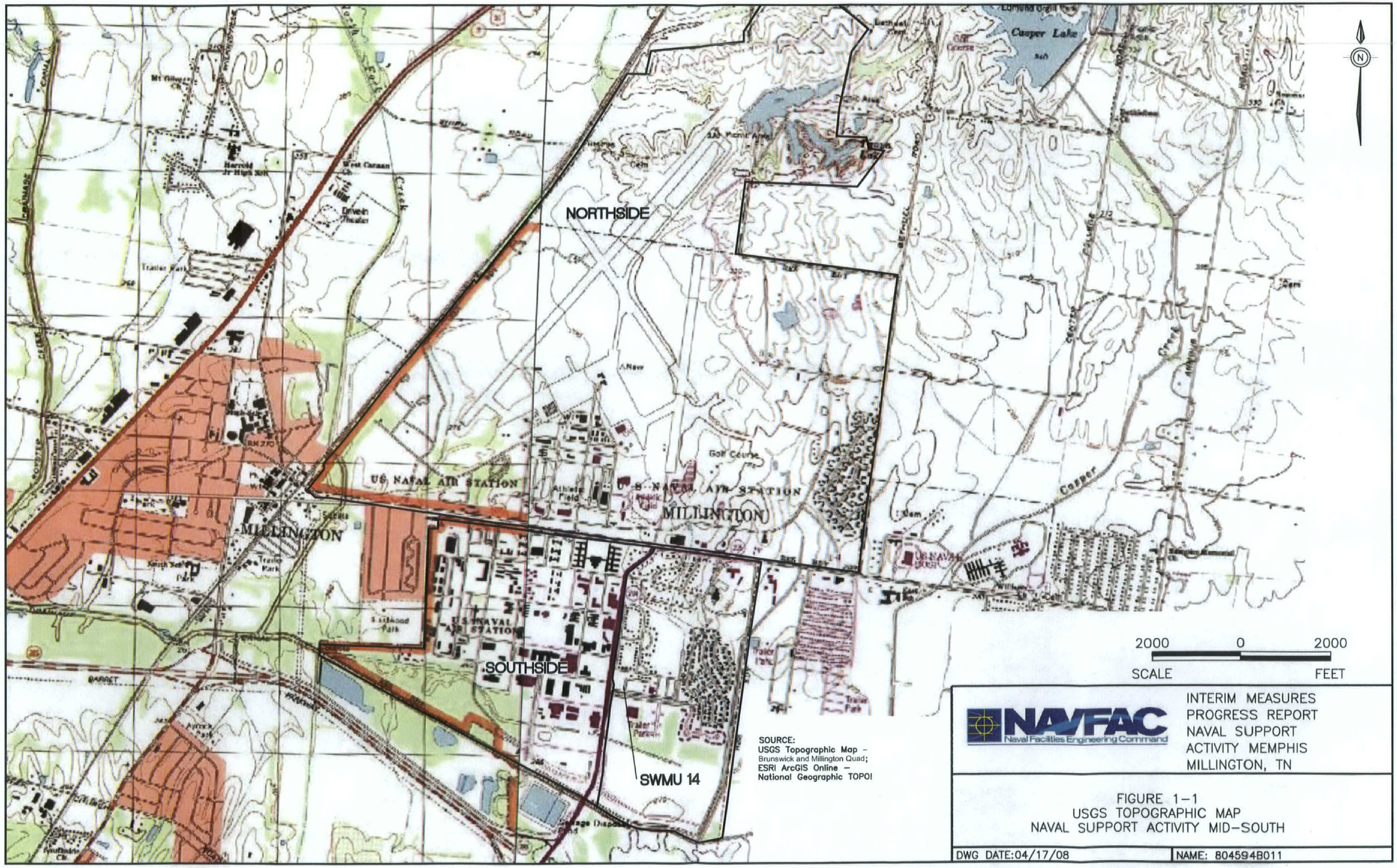
From USEPA's 1998 Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater (EPA/600/R-98/128)

Since February 4, 2005, the substrate injection wells have been used to inject designed quantities of nutrients (carbon and a nitrogen-based compound) to stimulate the natural biodegradation of the more highly chlorinated solvents through reductive dechlorination of TCE. TCE is expected to undergo transformation to dichloroethene,

[1] The *Interim Measures Work Plan — SWMU 14/46* 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.

vinyl chloride and ethene. The sequence may be interrupted and manipulated by the geochemical environment which is being maintained in an anaerobic state to stimulate the process.

Select existing monitoring wells, shown in Figure 1-2, have been sampled quarterly for field and laboratory chemical and geochemical analyses since January 2005 to evaluate the effectiveness of the MNA remedy. This progress report presents a comprehensive summary of the last four quarters of monitoring events from May 2007 through February 2008 and compares data collected since IMs began in 2005. A summary of field activities presented in Section 2.0 details injection frequencies, volumes, and monitoring. Results and analysis for the entire IMs period are presented and analyzed in Section 3.0.



SOURCE:
USGS Topographic Map – Brunswick and Millington Quad;
ESRI ArcGIS Online – National Geographic TOPO!

NAVFAC Naval Facilities Engineering Command

INTERIM MEASURES
PROGRESS REPORT
NAVAL SUPPORT
ACTIVITY MEMPHIS
MILLINGTON, TN

FIGURE 1–1
USGS TOPOGRAPHIC MAP
NAVAL SUPPORT ACTIVITY MID–SOUTH

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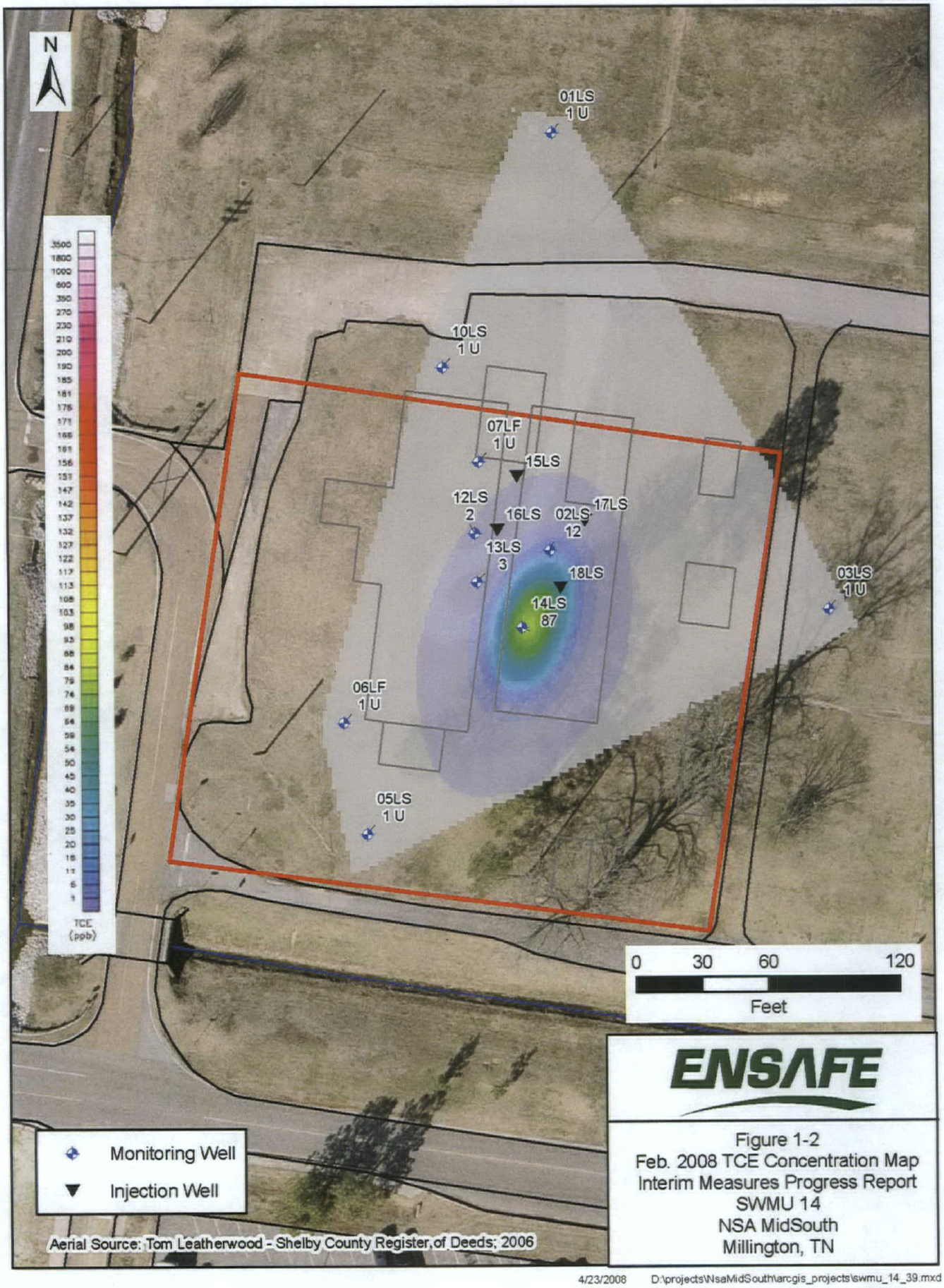

ENSAFE

Figure 1-2
Feb. 2008 TCE Concentration Map
Interim Measures Progress Report
SWMU 14
NSA MidSouth
Millington, TN

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2.0 SUMMARY OF FIELD ACTIVITIES

2.1 Substrate Injection

A monthly substrate injection of sodium acetate is performed using a mechanical feed system as described in the *Interim Measures Work Plan* (EnSafe, October 2004) to create the reducing conditions necessary for PCE and TCE biodegradation. In addition, designed quantities of diammonium phosphate also are injected as a micronutrient for microorganisms. From February 2005 to the latest sampling event in February 2008, a total of 31 monthly injection events have been completed[2].

During each injection, 100 gallons of dissolved sodium acetate and diammonium phosphate solution are added to each injection well. The solution contains 50 pounds of sodium acetate and 2.2 pounds of diammonium phosphate dissolved in 100 gallons of potable water. Mixing and pressure injection is performed in all wells in a single day. A total of 1,550 pounds of sodium acetate has been injected into each SWMU 14/46 injection well since IMs began. Changes to the quantities of substrate injected will be made if needed based on the progress of remediation and groundwater chemical and geochemical data. No adjustments in quantities have been made since injections began.

2.2 Quarterly Groundwater Sampling

Groundwater samples for the time period covered in this report (May 2007- February 2008) have been compared to historical data to monitor remediation effectiveness. Samples are analyzed for parameters/analytes presented in Table 2-1.

Water levels are measured during each quarterly sampling event in all SWMU 14/46 monitoring wells to assess the hydraulic effects of injection into the groundwater. At SWMU 14/46, the loess water table fluctuates roughly 8 to 10 feet between wet season (winter/spring) and dry season (summer/fall) conditions. Groundwater elevations from the February 2008 event were used to generate a computer-contoured potentiometric map for the loess. The potentiometric map (Figure 2-1) indicates that the water table slopes to the east, south, and southeast along the northern half of the site. While along the southern half, a groundwater valley is centered near 014G13LS, sloping downward to the south and providing a general southwest groundwater flow direction.

[2] Injections were not performed from January through June 2006 because of a delay in the change of the prime contractor and a late funding award. Monthly injections resumed in July 2006, but were not performed in December 2006 and January 2007 due to award funding. Injections continued in February 2007 and are ongoing.

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
ORP = oxidation reduction potential
TOC = total organic carbon

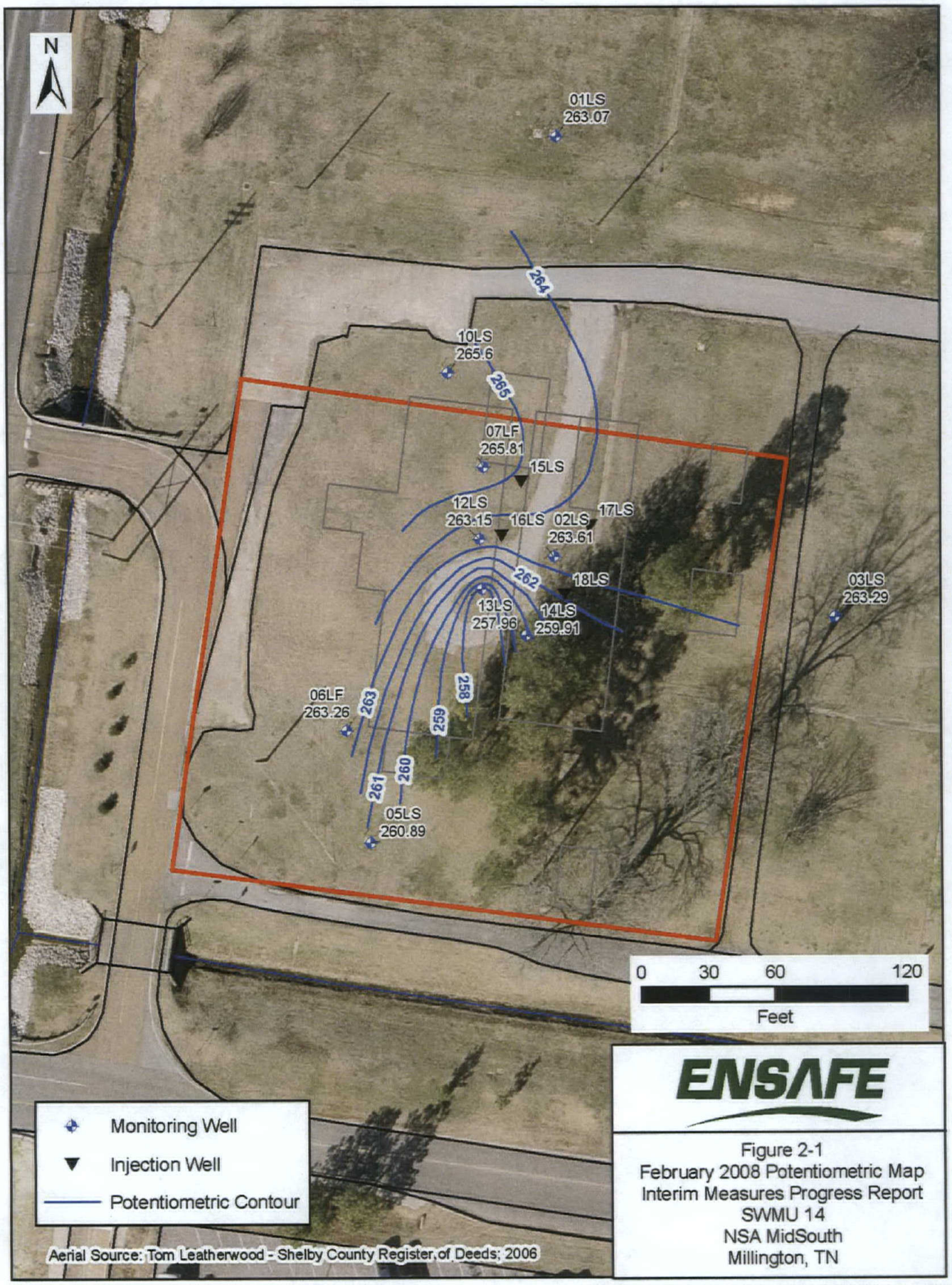

Figure 2-1
February 2008 Potentiometric Map
Interim Measures Progress Report
SWMU 14
NSA MidSouth
Millington, TN

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3.0 RESULTS AND ANALYSIS

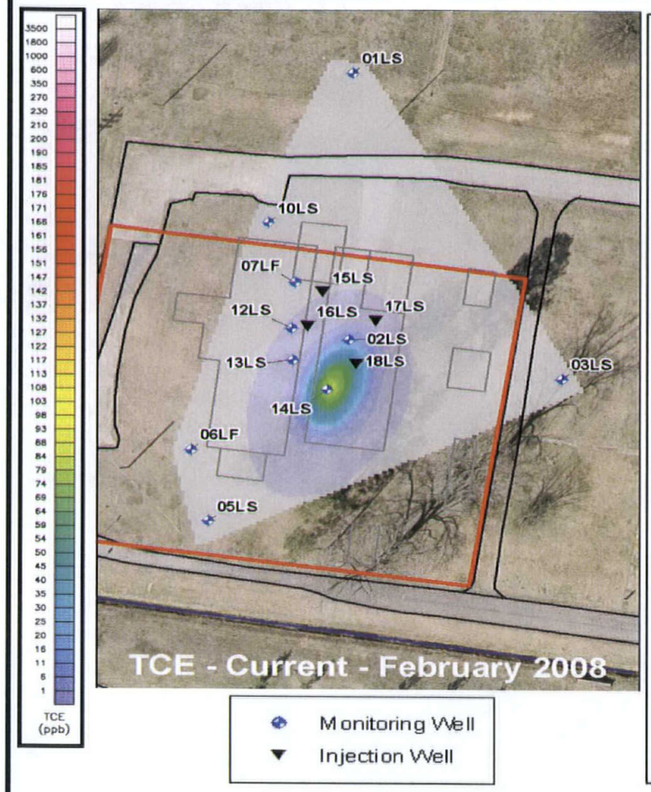
Ten monitoring wells within SWMU 14/46 were sampled during the May 2007 event. Based on the recommendation of the June 2007 IM Report (EnSafe, 2007) and approval by Tennessee Department of Environment and Conservation, sampling was discontinued at monitoring wells 014G01LS, 014G03LS, 014G05LS, and 014G10LS due to consistent non-detects. Six wells were sampled during the August 2007, November 2007, and February 2008 events. Trend graphs have been prepared for the two key monitoring well locations that have consistently observed TCE contamination, 014G02LS and 014G14LS. These trend graphs have been generated for both volatile organic compounds and select geochemical data and are presented in Figures 3-1 and 3-2. Only the volatile organic compounds of prime concern — PCE, TCE, cis-1,2-dichloroethylene (DCE), and vinyl chloride (vc) — identified in samples collected from the select monitoring wells within the treatment area are included in these graphs. Analytical results are presented in Appendix A. Summary tables of analytical and geochemical results since IMs began are in Appendix B.

Monitoring Well 014G02LS

Since injections began, PCE and TCE concentrations have fluctuated in 014G02LS (Figure 3-1). However, significant decreases in PCE and TCE concentrations were initially observed during the January 2007 sampling event and remained so during the four subsequent sampling events except for an increase in August 2007. PCE concentrations displayed a slight increase to 34 μg/L in August 2007, but continued a downward trend to 3 μg/L in November 2007 and below the 1 μg/L detection limit in February 2008. Similarly, TCE concentrations increased to 77 μg/L in August 2007 and decreased to 13 μg/L in November 2007 and 12 μg/L in February 2008. These increases could be partly attributed to concentration associated with the decrease in water levels during the August 2007 sampling event. However, several other observations made during the November 2007 and February 2008 sampling event suggest that these decreases may be attributable to the IMs. These additional observations include:

- Not only are the decreases observed at this well significant for both PCE and TCE, but cis-1,2-DCE concentrations have increased to the highest level since IMs began (200 μg/L).

- Decreases in PCE and TCE occurred immediately following a spike in total organic carbon (TOC) concentrations in October 2006 (560 milligrams per liter [mg/L]), indicating a surplus of substrate in the aquifer. TOC concentrations had decreased to 75 mg/L by January 2007, and had dropped below 5 mg/L by May 2007 (TOC results are displayed in Figure 3-1 and Table B-2 in Appendix B).



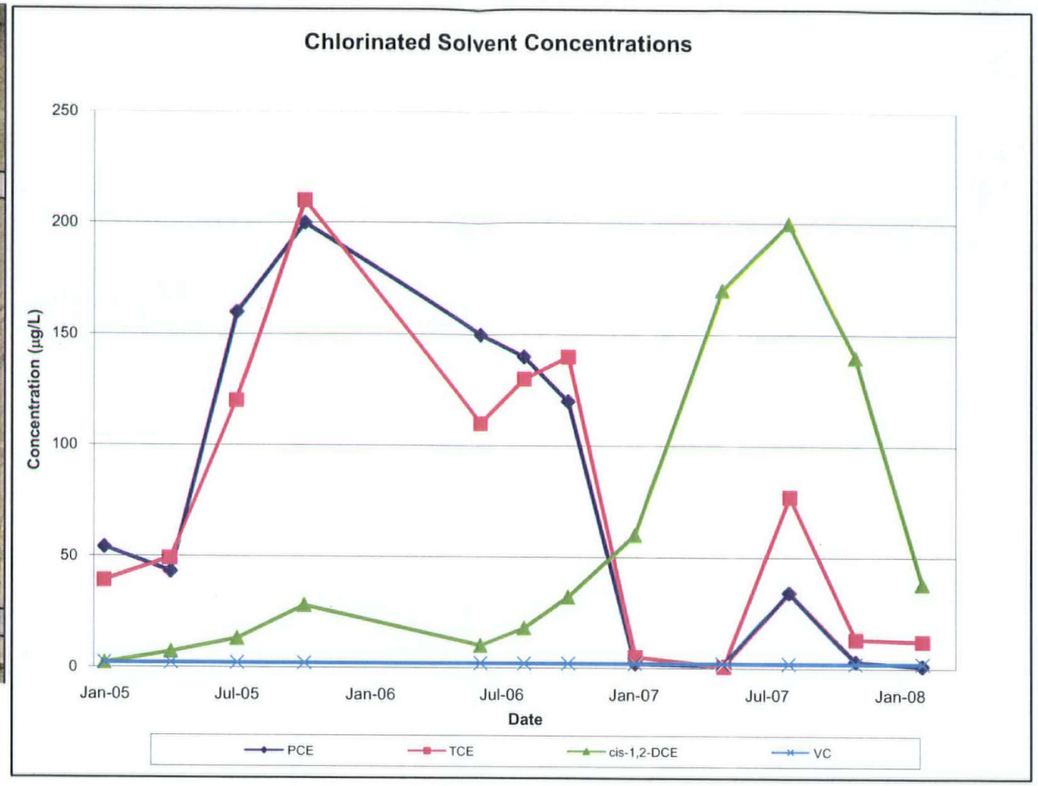
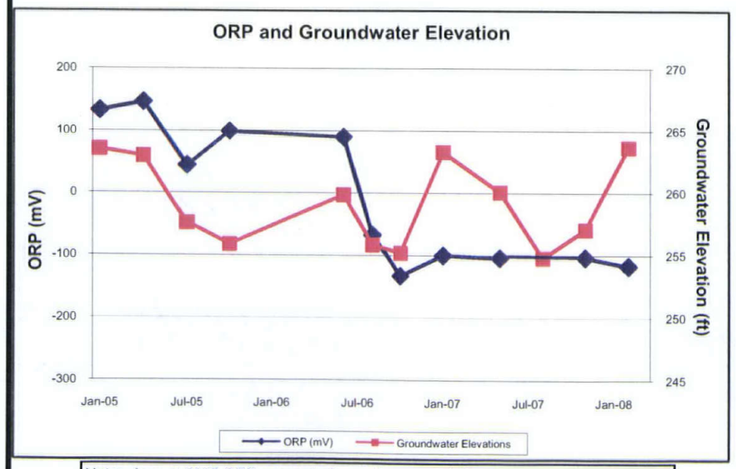


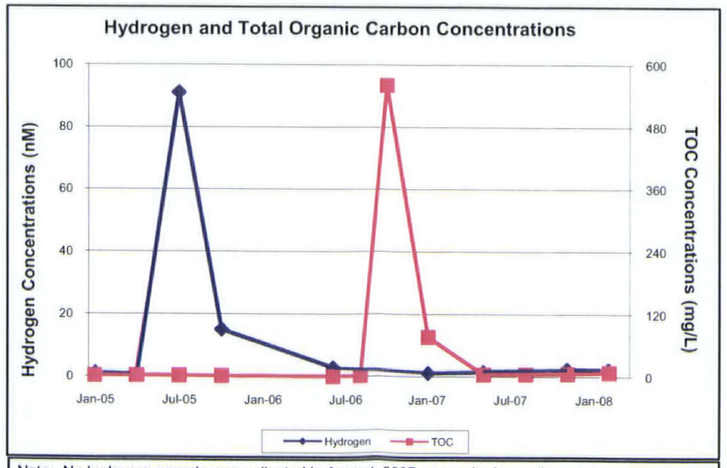
Figure 3-1
Monitoring Well
014G02LS

Date	Contaminants (µg/L)			
	PCE	TCE	cis-1,2-DCE	VC
Jan-05	54	39	2	2 U
Apr-05	43	49	7	2 U
Jul-05	160	120	13	2 U
Oct-05	200	210	28	2 U
Jun-06	150	110	10	2 U
Aug-06	140	130	18	2 U
Oct-06	120	140	32	2 U
Jan-07	2	5	60	2 U
May-07	1 U	0.6 J	170	2 U
Aug-07	34	77	200	2 U
Nov-07	3	13	140	2 U
Feb-08	1 U	12 J	38 J	2 U

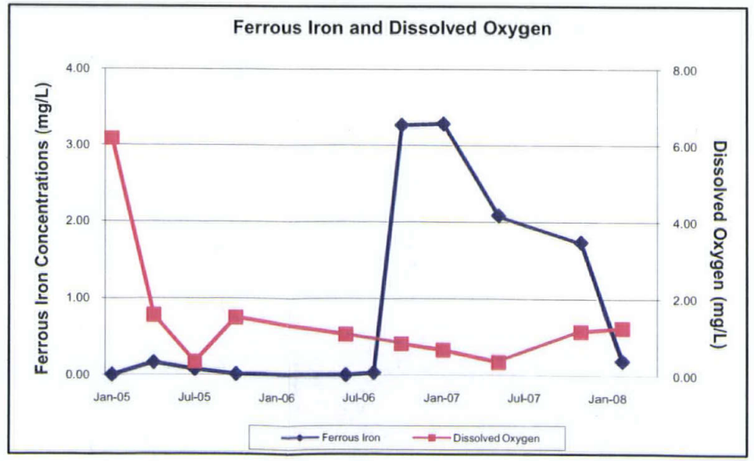
Note:
D Diluted
J Estimated
U Below Detection Limits

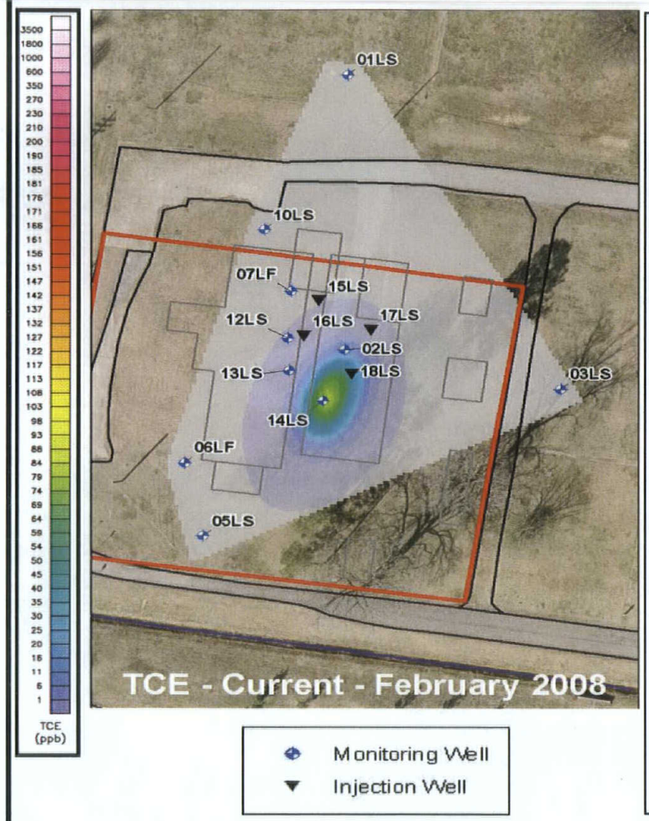


Note: August 2007 ORP concentration not presented due to erroneous reading.



Note: No hydrogen sample was collected in August 2007 as monitoring well went dry.





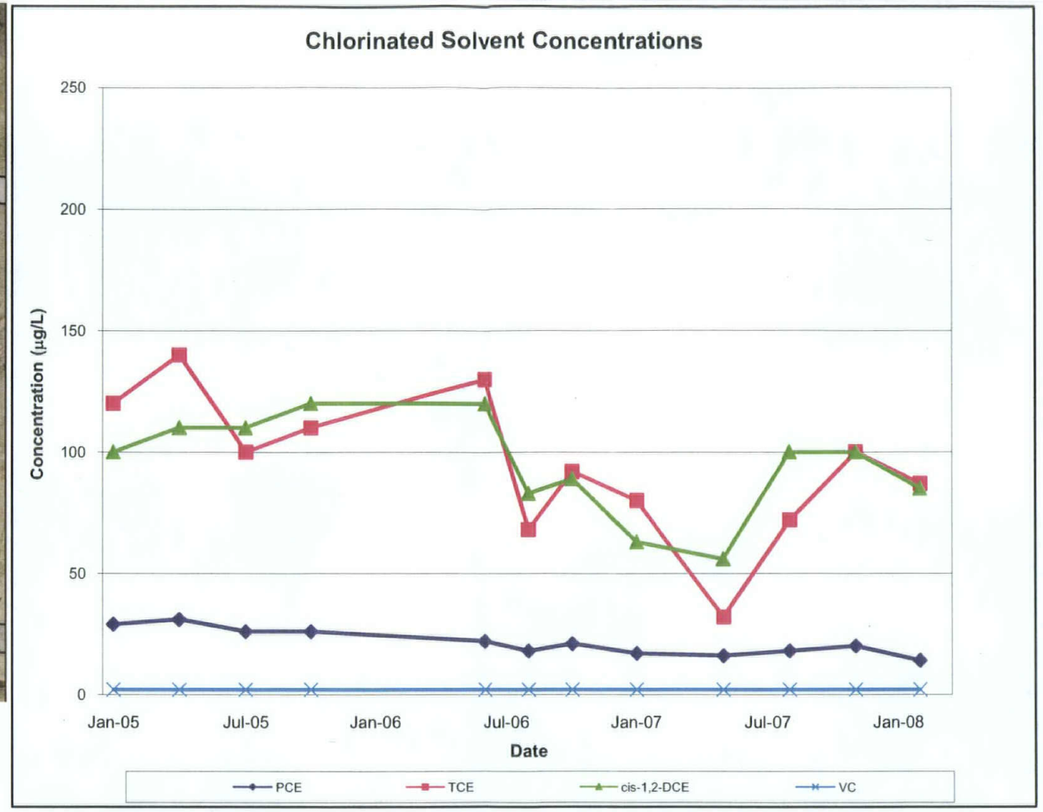
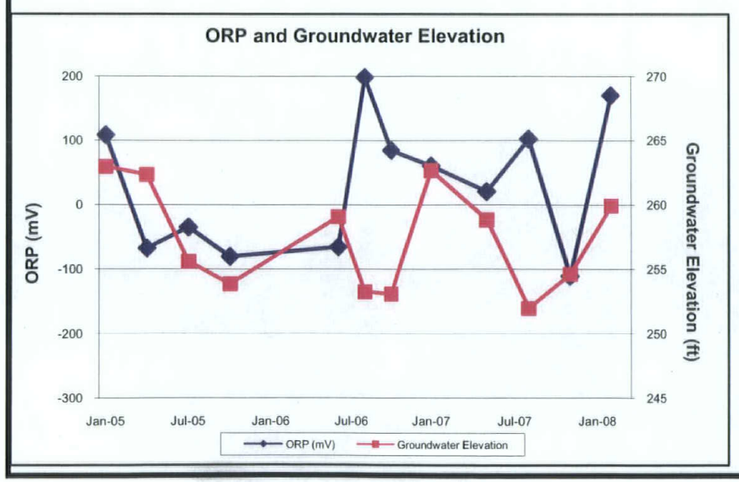
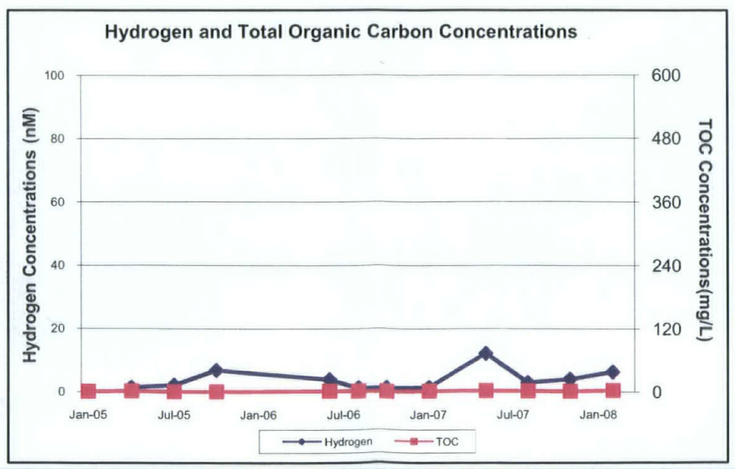


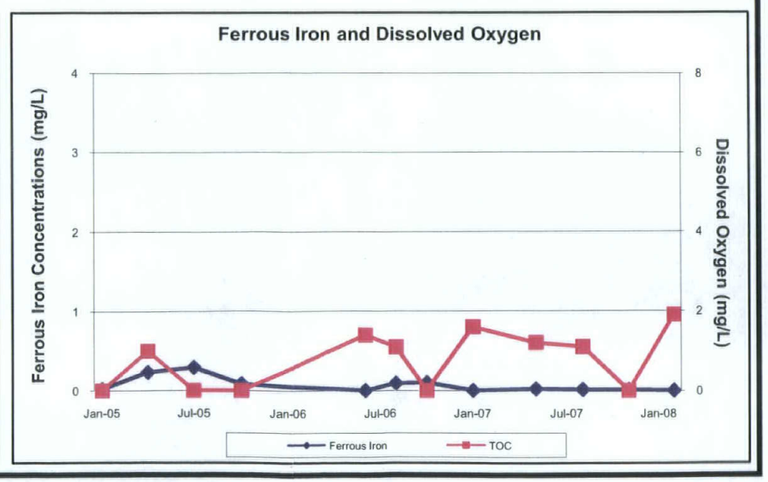
Figure 3-2
Monitoring Well
014G14LS

Date	Contaminants (µg/L)			
	PCE	TCE	cis-1,2-DCE	VC
Jan-05	29	120	100	2 U
Apr-05	31	140	110	2 U
Jul-05	26	100	110	2 U
Oct-05	26	110	120	2 U
Jun-06	22	130	120	2 U
Aug-06	18	68	83	2 U
Oct-06	21	92	89	2 U
Jan-07	17	80	63	2 U
May-07	16	32	56	2 U
Aug-07	18	72	100	2 U
Nov-07	20	100	100	2 U
Feb-08	14	87 J	85 J	2 U

Note:
D Diluted
J Estimated
U Below Detection Limits







- Cis-1,2-DCE concentrations subsequently decreased throughout 2007 and the first 2008 event to approximately 40 µg/L. Cyclic decreases in parent (PCE/TCE) and degradation product (cis-1,2-DCE) concentrations are consistent with enhanced degradation activity.

- Both dissolved oxygen (DO) concentrations and oxidation-reduction potential (ORP) values decreased during this IMs monitoring period, indicating reducing conditions are being established within this area of the aquifer (DO data is presented on Figure 3-1 and in Table B-2 in Appendix B). Hydrogen data indicate that aquifer conditions within this well are solidly sulfate-reducing (2 nanomolar).

- Ferrous iron concentrations were elevated throughout 2007, correlating well with ORP values of approximately -100 millivolts (mV). The presence of ferrous iron in the aquifer may have contributed to the absence of vinyl chloride during the sampling events, as vinyl chloride (and to some extent cis-1,2-DCE) are amenable to direct oxidation via microbially mediated iron reduction.

Although these decreases are a positive result for IMs, this monitoring well will continue to be sampled to monitor whether PCE and TCE concentrations rebound, or if microbial activity continues with the remaining cis-1,2-DCE.

Monitoring Well 014G14LS

TCE concentrations in monitoring well 014G14LS have decreased slightly since IMs began. PCE and TCE concentrations have fluctuated from 14 to 31 µg/L and 32 to 140 µg/L, respectively, since substrate injections were initiated in 2005. Cis-1,2-DCE concentrations have also fluctuated within a consistent range, from 56 µg/L to 120 µg/L, with no evidence of increasing concentrations. As shown on Figure 3-2, TCE and cis-1,2-DCE concentrations appear to be tracking together, which is not consistent with typical reductive dechlorination patterns. The absence of a clear downward trend for either parent product, or an upward trend for cis-1,2-DCE, suggests that reductive dechlorination is not occurring in this well.

Geochemical conditions suggest fluctuating conditions:

- ORP values have ranged from -111 mV to 170 mV since May 2007, reflecting aerobic to iron-reducing conditions.

- Hydrogen values range from 2 to 12 nanomolar per liter, suggesting sulfate-reducing to methanogenic conditions.

- Ferrous iron has not been detected, suggesting aerobic conditions.

February 2008 TOC concentrations are significantly lower in 014G14LS than in 014G02LS, and have historically not exceeded 2 mg/L (Figure 3-2 and Table B-2 in Appendix B). Elevated TOC concentrations are required to sustain reductive dechlorination over the long term. As 014G14LS is further away from the nearest upgradient injection point 014G18LS, it is possible that available organic carbon may be a limiting factor in reductive dechlorination processes in this well.

Other Wells

In addition to the two treatment area monitoring wells 014G02LS and 014G14LS, six other monitoring wells outside the source area have been sampled during quarterly events since IMs began. As indicated in Table B-1 in Appendix B, TCE contamination within these monitoring wells has been minimal (generally not detected) indicating that the plume is not migrating. Concentrations in monitoring wells 014G12LS and 014G13LS have decreased below maximum contaminant levels (MCLs) starting in mid-2006, and remained below MCLs through February 2008. It should be noted that monitoring well 014G12LS is the only other well which has exhibited TOC concentrations over 5 mg/L; the presumed reason for the elevated concentrations is its proximity to injection location 014G16LS.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The introduction of sodium acetate and ammonium phosphate triggered the reductive dechlorination of PCE and TCE in some locations within SWMU 14. The objective of the IM was to inject carbon and nutrients into low permeability loess materials to create reducing conditions. The most noticeable effects can be seen in monitoring well 014G02LS, where mildly reducing conditions have been confirmed via changes in geochemistry and contaminant concentrations, and by production of cis-1,2-DCE. However, the accumulation of cis-1,2-DCE in this well suggests that reductive dechlorination onsite has not been complete. The absence of reductive dechlorination in monitoring well 014G14LS indicates that degradation conditions have not been achieved throughout the treatment zone.

A review of site data suggests that insufficient distribution of TOC within the loess may be contributing to insufficient degradation. Significant degradation activity did not occur in 014G02LS until after elevated TOC was quantified in the well (560 mg/L in October 2006); this TOC level is assumed to have stimulated dechlorinating microbes. While microbial populations sometimes require a long acclimation period before the onset of reductive dechlorination, TOC levels appear to be critical, as prior to October 2006 TOC concentrations never exceeded 1.4 mg/L. In 014G14LS, TOC levels have not exceeded 2 mg/L during the IM.

Based on the PCE and TCE IMs sampling data, EnSafe recommends reviewing the following elements to improve PCE and TCE degradation near 014G02LS and 014G14LS:

- **Assess injection techniques** — Review the distribution of TOC relative to injection times and quantities. Initial data review suggests that injections do not result in an immediate increase in TOC within the treatment zone. Slow travel times in the loess may limit migration of the carbon substrate in the treatment zone. Alternate injection techniques (e.g., direct-push technology) may need to be reviewed to deliver substrate to the target zone.

- **Injection well locations** — Given low transport velocities in the loess, closer injection spacing may be required to ensure timely delivery of substrate to all treatment zones.

- **Microbial population** — A microbial profile should be obtained from 014G02LS and 014G14LS, and analyzed for the presence of *Dehaloccocoides*, sulfur-reducing bacteria, methanogens, and methanotrophs.[3] Assessment of aerobic bacteria should also be considered. Actions to stimulate dechlorinating bacteria (up to and including bioaugmentation) should be evaluated.

[3] Additional parameters should be considered following discussions with the microbial laboratory.

- **Carbon substrate requirements/type** — Acetate-based remediation systems typically release TOC rapidly into the subsurface. If aquifer conditions favor microbial populations other than dechlorinating bacteria, TOC consumption could be driven by aerobes, iron-reducers, or other consortia. In addition, given the slow travel times in the loess, TOC consumption may occur within 1 to 2 feet of the injection location, with little to no substrate migrating to downgradient locations. An assessment of the quantity of substrate, as well as the type of substrate (e.g., a slow-release compound such as Hydrogen Release Compound or Emulsified Oil Substrate) may be preferable.

- **Potential impacts from fluctuations in the water table** — At SWMU 14, the loess water table fluctuates roughly 8 to 10 feet between wet season (winter/spring) and dry season (summer/fall) conditions. As reductive dechlorination occurs in the aqueous phase, coordination of injections with seasonal high water table conditions may be required to maximize carbon substrate distribution (via dissolution and diffusion) in the treatment zone.

In the interim, substrate injections (both quantity and frequency) should continue monthly as currently designed. The sampling frequency and analysis should remain the same to observe VOC and geochemical trends.

5.0 REFERENCES

EnSafe Inc. (2000). *RCRA Facility Investigation Report — Assembly E, Naval Support Activity Mid-South,* Revision 2. Memphis, Tennessee. October 6, 2000.

— (2001). *Corrective Measures Study Work Plan, Naval Support Activity Mid-South, SWMU 14/46* Revision 1. Memphis, Tennessee. March 30, 2001.

— (2001). *MNA Treatability Study Report — SWMU 14/46, Naval Support Activity Mid-South.* Memphis, Tennessee. August 23, 2001.

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

— (2003, December 22). *Corrective Measures Study, Naval Support Activity Mid-South, SWMU 14/46, Revision 1.* Memphis, Tennessee.

— (2004, October 12). *Interim Measures Work Plan — SWMU 14/46, Naval Support Activity Mid-South, Revision 0.* Memphis, Tennessee.

— (2005, November 12). *Interim Measures Progress Report — SWMU 14/46, Naval Support Activity Mid-South, Revision 1.* Memphis, Tennessee.

— (2007, March 9). *Interim Measures Progress Report — SWMU 14/46, Naval Support Activity Mid-South, Revision 1.* Memphis, Tennessee.

USEPA. (1994). *RCRA Corrective Action Interim Measures Guide* (Interim Final), OSWER Directive 9902.4, Office of Waste Programs Enforcement, Office of Solid Waste.

Appendix A
VOC Analytical Results

microseeps

from insight comes solutions

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

Page: Page 1 of 27
Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Laboratory Results

Total pages in data package: 216

Lab Sample #	Client Sample ID		
P0705502-01	007G57LF25	P0705502-20	007G58LFBO
P0705502-02	007G71LF09	P0705502-21	007G63LFB0
P0705502-03	PESGMW4D11		
P0705502-04	007G64LF09		
P0705502-05	PESGMW7D11		
P0705502-06	007G21LF25		
P0705502-07	PESGMW3D11		
P0705502-08	007G62LFBO		
P0705502-09	PESGMW7S11		
P0705502-10	007G22LF25		
P0705502-11	007G65LF09		
P0705502-12	007G59LFRO		
P0705502-13	PESGMW3S11		
P0705502-14	007G04LF25		
P0705502-15	PESGMW2D11		
P0705502-16	PESGMW2S11		
P0705502-17	PESGMW4S11		
P0705502-18	007G66LF08		
P0705502-19	007G69LF09		

Microseeps test results meet all the requirements of the NELAC standards.

Approved By: 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: Tommy Lee
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 2 of 27
Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
007G57LF25	Vapor	P0705502-01	24 May. 07 11:40	26 May. 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.088	0.010	ug/L	AM20GAX	5/31/07	sl
N Ethene		1.500	0.010	ug/L	AM20GAX	5/31/07	sl
N Hydrogen		1.400	0.6	nM	AM20GAX	5/31/07	sl
N Methane		4000.000	0.015	ug/L	AM20GAX	5/31/07	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: Tommy Lee
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 3 of 27
Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
007G71LF09	Vapor	P0705502-02	24 May 07 10.00	26 May 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0 010	0 010	ug/L	AM20GAX	5/31/07	sl
N Ethene		0 150	0 010	ug/L	AM20GAX	5/31/07	sl
N Hydrogen		1 500	0 6	nM	AM20GAX	5/31/07	sl
N Methane		7000 000	0 015	ug/L	AM20GAX	5/31/07	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 samples received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 4 of 27
Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
PESGMW4D11	Water	P0705502-03	22 May 07 11:20	26 May 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0 025	0.025	ug/L	AM20GAX	6/4/07	rw
N Ethene		0.270	0.025	ug/L	AM20GAX	6/4/07	rw
N Hydrogen		2 300	0 6	nM	AM20GAX	5/31/07	sl
N Methane		24000.000	0.100	ug/L	AM20GAX	6/4/07	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: Tommy Lee
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

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Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
007G64LF09	Vapor	P0705502-04	24 May. 07 13:10	26 May 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0 590	0 010	ug/L	AM20GAX	5/31/07	sl
N Ethene		1 900	0 010	ug/L	AM20GAX	5/31/07	sl
N Hydrogen		1 200	0 6	nM	AM20GAX	5/31/07	sl
N Methane		13000 000	0 015	ug/L	AM20GAX	5/31/07	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 sa[illegible]s received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 6 of 27
Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
PESGMW7D11	Vapor	P0705502-05	23 May 07 10:25	26 May 07 14 08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0 010	0.010	ug/L	AM20GAX	5/31/07	sl
N Ethene		17 000	0 010	ug/L	AM20GAX	5/31/07	sl
N Hydrogen		2 900	0 600	nM	AM20GAX	5/31/07	sl
N Methane		14000 000	0 015	ug/L	AM20GAX	5/31/07	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: Tommy Lee
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

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Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
007G21LF25	Vapor	P0705502-06	24 May. 07 16:00	26 May. 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.022	0.010	ug/L	AM20GAX	5/31/07	sl
N Ethene		0.670	0.010	ug/L	AM20GAX	5/31/07	sl
N Hydrogen		2.100	0.600	nM	AM20GAX	5/31/07	sl
N Methane		6100.000	0.015	ug/L	AM20GAX	5/31/07	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 samples received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

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Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
PESGMW3D11	Vapor	P0705502-07	23 May 07 10:15	26 May 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.039	0 010	ug/L	AM20GAX	5/31/07	sl
N Ethene		0 570	0 010	ug/L	AM20GAX	5/31/07	sl
N Hydrogen		2 500	0.600	nM	AM20GAX	5/31/07	sl
N Methane		11000.000	0.015	ug/L	AM20GAX	5/31/07	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: Tommy Lee
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

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Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
007G62LFBO	Vapor	P0705502-08	25 May. 07 9:55	26 May. 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	5/31/07	sl
N Ethene		0.400	0.010	ug/L	AM20GAX	5/31/07	sl
N Hydrogen		2.000	0.600	nM	AM20GAX	5/31/07	sl
N Methane		7200.000	0.015	ug/L	AM20GAX	5/31/07	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 samples received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Tommy Lee
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Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
PESGMW7S11	Vapor	P0705502-09	23 May 07 12:05	26 May. 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.012	0.010	ug/L	AM20GAX	5/31/07	sl
N Ethene		0.440	0.010	ug/L	AM20GAX	5/31/07	sl
N Hydrogen		1.400	0.600	nM	AM20GAX	5/31/07	sl
N Methane		200.000	0.015	ug/L	AM20GAX	5/31/07	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
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Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
007G22LF25	Vapor	P0705502-10	23 May 07 14:05	26 May 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	5/31/07	sl
N Ethene		1.100	0.010	ug/L	AM20GAX	5/31/07	sl
N Hydrogen		2.600	0.600	nM	AM20GAX	5/31/07	sl
N Methane		11000.000	0.015	ug/L	AM20GAX	5/31/07	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 samples received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

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Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
007G65LF09	Vapor	P0705502-11	24 May. 07 11:35	26 May. 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0 010	0.010	ug/L	AM20GAX	5/31/07	sl
N Ethene		0.510	0.010	ug/L	AM20GAX	5/31/07	sl
N Hydrogen		1.400	0.600	nM	AM20GAX	5/31/07	sl
N Methane		13000 000	0.015	ug/L	AM20GAX	5/31/07	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: Tommy Lee
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

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Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
007G59LFRO	Vapor	P0705502-12	25 May 07 10:00	26 May 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	5/31/07	sl
N Ethene		1.700	0.010	ug/L	AM20GAX	5/31/07	sl
N Hydrogen		4.000	0.600	nM	AM20GAX	5/31/07	sl
N Methane		7900.000	0.015	ug/L	AM20GAX	5/31/07	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 samples received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

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Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
PESGMW3S11	Vapor	P0705502-13	23 May 07 12:00	26 May 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	5/31/07	sl
N Ethene		6 400	0.010	ug/L	AM20GAX	5/31/07	sl
N Hydrogen		3 200	0 600	nM	AM20GAX	5/31/07	sl
N Methane		4900.000	0.015	ug/L	AM20GAX	5/31/07	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 samples received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

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Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
007G04LF25	Vapor	P0705502-14	24 May. 07 13:15	26 May. 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0 022	0 010	ug/L	AM20GAX	5/31/07	sl
N Ethene		1 200	0.010	ug/L	AM20GAX	5/31/07	sl
N Hydrogen		1 700	0.600	nM	AM20GAX	5/31/07	sl
N Methane		9100.000	0 015	ug/L	AM20GAX	5/31/07	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 sa[illegible] as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 16 of 27
Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
PESGMW2D11	Vapor	P0705502-15	22 May 07 12:35	26 May 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	5/31/07	sl
N Ethene		0.080	0.010	ug/L	AM20GAX	5/31/07	sl
N Hydrogen		2.800	0.600	nM	AM20GAX	5/31/07	sl
N Methane		7900 000	0.015	ug/L	AM20GAX	5/31/07	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: Tommy Lee
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

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Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
PESGMW2S11	Vapor	P0705502-16	22 May 07 14:00	26 May 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0 500	0.010	ug/L	AM20GAX	5/31/07	sl
N Ethene		7.000	0.010	ug/L	AM20GAX	5/31/07	sl
N Hydrogen		4.000	0 600	nM	AM20GAX	5/31/07	sl
N Methane		10000.000	0 015	ug/L	AM20GAX	5/31/07	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: Tommy Lee
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

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Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
PESGMW4S11	Vapor	P0705502-17	22 May 07 13:00	26 May 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	5/31/07	sl
N Ethene		2.300	0.010	ug/L	AM20GAX	5/31/07	sl
N Hydrogen		5.300	0.600	nM	AM20GAX	5/31/07	sl
N Methane		11000.000	0.015	ug/L	AM20GAX	5/31/07	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 samples received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

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Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
007G66LF08	Vapor	P0705502-18	24 May 07 16:00	26 May 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	6/1/07	sl
N Ethene		0.640	0.010	ug/L	AM20GAX	6/1/07	sl
N Hydrogen		1.300	0.600	nM	AM20GAX	6/1/07	sl
N Methane		7600 000	0.015	ug/L	AM20GAX	6/1/07	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 as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Spectra Tech
Contact: Tommy Lee
Address: 132 Jefferson Court
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Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
007G69LF09	Vapor	P0705502-19	23 May 07 14:00	26 May 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	6/1/07	sl
N Ethene		0.260	0.010	ug/L	AM20GAX	6/1/07	sl
N Hydrogen		1.500	0.600	nM	AM20GAX	6/1/07	sl
N Methane		11000.000	0.015	ug/L	AM20GAX	6/1/07	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 sa[illegible]s received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 21 of 27
Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
007G58LFBO	Vapor	P0705502-20	24 May. 07 14:45	26 May 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	6/1/07	sl
N Ethene		0.770	0.010	ug/L	AM20GAX	6/1/07	sl
N Hydrogen		1.100	0.600	nM	AM20GAX	6/1/07	sl
N Methane		10000 000	0 015	ug/L	AM20GAX	6/1/07	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 sa[illegible]s received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 22 of 27
Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
007G63LFB0	Vapor	P0705502-21	25 May. 07 11:15	26 May. 07 14:08

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	6/1/07	sl
N Ethene		0.470	0.010	ug/L	AM20GAX	6/1/07	sl
N Hydrogen		1.600	0.600	nM	AM20GAX	6/1/07	sl
N Methane		6900.000	0.015	ug/L	AM20GAX	6/1/07	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 s[illegible] as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 23 of 27
Lab Proj # P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

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

M070531027-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Hydrogen	< 0 600	nM		0 6		- NA

M070531027-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hydrogen	43 000	nM	48 91	88 00	75 - 125

M070531027-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Hydrogen	43 000	nM	48 91	88 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 s[illegible]as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 24 of 27
Lab Proj #: P0705502
Report Date 06/05/07
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

M070531028-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

M070531028-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Ethane	14 000	ug/L	13.54	103 00	75 - 125
Ethene	34 000	ug/L.	32 44	105 00	75 - 125
Methane	16 000	ug/L	15 41	104 00	75 - 125

M070531028-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	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 s is received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Lab Proj #: P0705502
Report Date: 06/05/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Prep Method: Hydrogen by Bubble Strip

Analysis Method: Hydrogen by Bubble Strip

M070601022-MB

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

M070601022-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hydrogen	43.000	nM	48.91	88.00	75 - 125

M070601022-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Hydrogen	43.000	nM	48.91	88.00	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 sa[illegible]as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 26 of 27
Lab Proj #: P0705502
Report Date: 06/05/07
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

M070601023-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

M070601023-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Ethane	14.000	ug/L	13.54	103.00	75 - 125
Ethene	34.000	ug/L	32.44	105.00	75 - 125
Methane	16.000	ug/L	15.41	104.00	75 - 125

M070601023-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	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 s[illegible] as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 27 of 27
Lab Proj #: P0705502
Report Date: 06/05/07
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

M070604001-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

M070604001-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Ethane	49.000	mg/L	41.68	118.00	75 - 125
Ethene	45.000	mg/L	38.89	116.00	75 - 125
Methane	810 000	mg/L	822.80	98.00	75 - 125

M070604001-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Ethane	48.000	mg/L	41.68	115.00	75 - 125	2.06	0 - 20
Ethene	44.000	mg/L	38.89	113.00	75 - 125	2 25	0 - 20
Methane	800.000	mg/L	822.80	97 00	75 - 125	1.24	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. # _____

CHAIN - OF CUSTODY RECORD

PO 705502

Microseeps COC cont. # _____

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 # : 865-483-7262 Fax # : 865-483-7210
Proj. Manager : Tommy Lee
Proj. Name/Number : NSA MID SOUTH
Sampler's signature : [signature]

Cooler Temp.

Results to :
Invoice to :

	Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# of Bottles	Dissolved Hydro. (Air)	Methane, Ethane, Ethene (Water)										Remarks :
1	007G57LF25 ✓		✓	✓		5-24-07	1140	2	1	1										
2	007G71LF09 ✓		✓	✓		5-24-07	1000	2	1	1										
3	PESGMW4D11 ✓ NA Final		✓	✓		5-22-07	1120	2	1	1										
4	007G64LF09 ✓		✓	✓		5-24-07	1310	2	1	1										
5	PESGMW7D11 ✓		✓	✓		5-23-07	1025	2	1	1										
6	007G21LF25 ✓		✓	✓		5-24-07	1600	2	1	1										
7	PESGMW3D11 ✓		✓	✓		5-23-07	1015	2	1	1										
8	007G62LFB0 ✓		✓	✓		5-25-07	0955	2	1	1										
9	PESGMW7S11 ✓		✓	✓		5-23-07	1205	2	1	1										
10	007G22LF25 ✓		✓	✓		5-23-07	1405	2	1	1										
11	007G65LF09 ✓		✓	✓		5-24-07	1135	2	1	1										
12	007G59LFR0 ✓		✓	✓		5-25-07	1000	2	1	1										

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[signature]	Spectra Tech	5-25-07	1500	Maureen [signature]	Microseeps	5/26/07	1200
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

P0705502

Microseeps Lab. Proj. # _____

CHAIN - OF CUSTODY RECORD

P0705502

Microseeps COC cont. # _____

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

Company : Spectra Tech

Co. Address :

Phone # : _____ Fax # : _____

Proj. Manager :

Proj. Name/Number :

Sampler's signature : [signature]

Cooler Temp.

Results to :

Invoice to :

	Sample ID	Sample Description	Sample Type: Water	Vapor	Solid	Date	Time	# Bottles	Dissolved Hydro. (Air)	Methane, Ethane, Ethene (water)										Remarks
13	PESGMW3S11		✓	✓		5-23-07	1200	2	1	1										
14	007G04LF25		✓	✓		5-24-07	1315	2	1	1										
15	PESGMW2D11		✓	✓		5-22-07	1235	2	1	1										
16	PESGMW2S11		✓	✓		5-22-07	1400	2	1	1										
17	PESGMW4S11		✓	✓		5-22-07	1300	2	1	1										
18	007G66LF08		✓	✓		5-24-07	1600	2	1	1										
19	007G69LF09		✓	✓		5-23-07	1400	2	1	1										
20	007G58LFB0		✓	✓		5-24-07	1445	2	1	1										
21	007G63LFB0		✓	✓		5-25-07	1115	2	1	1										

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[signature]	Spectra Tech	5-25-07	1500	Maureen [signature]	Microseeps	5/26/07	1200
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

30

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

P0705502

NON-CONFORMANCE FORM

Date: 5/26/07 Receiver: McDonald Time of Receipt: 1200

Client: Spectra Tech Number of Samples out of Conformance: 2

REASONS FOR NON-CONFORMANCE

- [ ] Samples received past holding time
- [ ] Broken bottles
- [ ] Incorrect containers
- [ ] Incorrect preservative
- [ ] Sample ID different from COC
- [ ] Labels missing or unreadable
- [ ] Analysis not written on COC
- [ ] Sample received not on COC
- [ ] Sample on COC not received
- [ ] Hold time not observed internally

Description: 0076041F25 5/24/07 1315 Lid Cracked

5/22/07 1120

PESGMW4D11 No Vapor Vial

Received one unlabeled Vapor Vial could be PesGMW4D11?

Remarks:

(See other side for resolution)

(Customer Service to complete below)

Microseeps Project Number: _____

Action Taken: _____

☐ Client Contacted Date: 5/29 Time: 9:22

Contact Name: TOMMY LEE

Result:
TOMMY WILL CALL BACK

log in unlabeled sample PESGMW4D11
per Tommy Lee 5/30 10:40

☐ Attempted Contact Date: _____ Time: _____

Message: _____

☐ Not necessary to contact client

Take the following action: _____

Customer Service Initials: _____ Date: _____

Debbie Hallo

From: Lee, Tommy G [tglee@spectratechinc.com]
Sent: Wednesday, May 30, 2007 10:32 AM
To: Debbie Hallo
Subject: RE: NAS Mid south

Debbie,

Thks for the prelim results.

The extra Hydrogen vial in the Friday shipment would belong to sample PESGM4D11. Make a note of this on the COC receipt for the record.

Thanks,
Tommy

From: Debbie Hallo [mailto:dhallo@microseeps.com]
Sent: Wednesday, May 30, 2007 10:27 AM
To: rmoody@spectratechinc.com;Lee, Tommy G
Subject: NAS Mid south

Attached are the results for sample dates 5/15-5/17. I do not have the EDD yet.
Debbie

Debbie Hallo
Microseeps, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone 412 826 5245
Fax 412 826 3433
www. microseeps.com

SPECTRA TECH, INC.
NSA MID-SOUTH
SDG: NSA-020
SA2339, SA2373

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

SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
SPECTRA TECH, INC.
CASE NSA MID-SOUTH
SDG: NSA-020
SA2339, SA2373

Sample Receipt

The following samples were received on May 16 and 17, 2007 and were logged in under Katahdin Analytical Services work order numbers SA2339 and SA2373 for a hardcopy due date of June 5, 2007.

KATAHDIN Sample No.	SPECTRA TECH Sample Identification
SA2339-1	014G13LS08
SA2339-2	014G03LS18
SA2339-3	014G10LS18
SA2339-4	014G12LS08
SA2339-5	014G01LS18
SA2339-6	014G06LF12
SA2339-7	014G14LS08
SA2339-8	014G07LF12
SA2339-9	014H07LF12
SA2339-14	014G05LS18
SA2373-1	014G02LS18
SA2373-2	014G02LS18

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-020 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. Sample SA2339-1 was used for the Matrix Spike (MS) and Matrix Spike Duplicate (MSD), per client request. 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

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 not to take corrective action until the number of spiked analytes in the LCS that are outside of the QC limits is not greater than the DoD QSM allowable number of exceedances. 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 calibration analyzed on the F instrument on 5/17/07 had a %RSD value 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 SA2339-4 was manually integrated for trans-1,2-dichloroethene and 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.

Wet Chemistry Analysis

The samples of SDG NSA-020 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.

Katahdin
ANALYTICAL SERVICES

Cert. No. E87604

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
6-7-07

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
www.katahdinlab.com

SAMPLE DATA SUMMARY PACKAGE

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).
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.

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA Mid-South
PO No:
Sample Date: 05/14/07
Received Date: 05/16/07
Extraction Date:
Analysis Date: 24-MAY-2007 12:35
Report Date: 06/04/2007
Matrix: WATER
% Solids: NA

Lab ID: SA2339-1
Client ID: 014G13LS08
SDG: NSA-020
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG39270
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	0.6
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.6
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.6
75-09-2	Methylene Chloride	U	5	1.0	5	5	2
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene		3	1.0	1	1	0.6
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene		32	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.5
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.5
78-93-3	2-Butanone	U	5	1.0	5	5	3
71-43-2	Benzene	U	1	1.0	1	1	0.5
107-06-2	1,2-Dichloroethane		23	1.0	1	1	0.4
79-01-6	Trichloroethene		4	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.4
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	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene		2	1.0	1	1	0.6
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.5
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	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	1
	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	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		121%				
17060-07-0	1,2-Dichloroethane-D4		106%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		99%				

Weq tpi$Hexe$Wyq q ev}$E4444447

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G13LS08

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID-SOUTH

SDG No.: NSA-020

Matrix: (soil/water) WATER

Lab Sample ID: SA2339-1

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

Lab File ID: F5851

Level: (low/med) LOW

Date Received: 05/16/07

% Moisture: not dec. _____

Date Analyzed: 05/24/07

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 Mid-South
PO No:
Sample Date: 05/14/07
Received Date: 05/16/07
Extraction Date:
Analysis Date: 24-MAY-2007 13:09
Report Date: 06/04/2007
Matrix: WATER
% Solids: NA

Lab ID: SA2339-2
Client ID: 014G03LS18
SDG: NSA-020
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG39270
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	0.6
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.6
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.6
75-09-2	Methylene Chloride	U	5	1.0	5	5	2
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.6
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	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.5
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.5
78-93-3	2-Butanone	U	5	1.0	5	5	3
71-43-2	Benzene	U	1	1.0	1	1	0.5
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.4
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.4
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	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.6
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.5
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	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	1
	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	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		124%				
17060-07-0	1,2-Dichloroethane-D4		106%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		95%				

Weq tpi$Hexe$Wyq q ev}$E4444449

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G03LS18

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID-SOUTH

SDG No.: NSA-020

Matrix: (soil/water) WATER

Lab Sample ID: SA2339-2

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

Lab File ID: F5852

Level: (low/med) LOW

Date Received: 05/16/07

% Moisture: not dec. _____

Date Analyzed: 05/24/07

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

Weq tpi$Hexe$Wyq q ev}$E444444:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA Mid-South
PO No:
Sample Date: 05/14/07
Received Date: 05/16/07
Extraction Date:
Analysis Date: 24-MAY-2007 13:44
Report Date: 06/04/2007
Matrix: WATER
% Solids: NA

Lab ID: SA2339-3
Client ID: 014G10LS18
SDG: NSA-020
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG39270
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	0.6
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.6
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.6
75-09-2	Methylene Chloride	U	5	1.0	5	5	2
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.6
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	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.5
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.5
78-93-3	2-Butanone	U	5	1.0	5	5	3
71-43-2	Benzene	U	1	1.0	1	1	0.5
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.4
79-01-6	Trichloroethene	J	0.4	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.4
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	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.6
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.5
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	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	1
	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	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		102%				
17060-07-0	1,2-Dichloroethane-D4		99%				
2037-26-5	Toluene-D8		90%				
460-00-4	P-Bromofluorobenzene		92%				

Weq tpi$Hexe$Wyq q ev}$E444444;

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G10LS18

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID-SOUTH

SDG No.: NSA-020

Matrix: (soil/water) WATER

Lab Sample ID: SA2339-3

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

Lab File ID: F5853

Level: (low/med) LOW

Date Received: 05/16/07

% Moisture: not dec. _____

Date Analyzed: 05/24/07

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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Weq tpi$Hexe$Wyq q ev}$E444444<

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA Mid-South
PO No:
Sample Date: 05/14/07
Received Date: 05/16/07
Extraction Date:
Analysis Date: 24-MAY-2007 14:18
Report Date: 06/04/2007
Matrix: WATER
% Solids: NA

Lab ID: SA2339-4
Client ID: 014G12LS08
SDG: NSA-020
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG39270
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	0.6
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.6
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.6
75-09-2	Methylene Chloride	U	5	1.0	5	5	2
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene		1	1.0	1	1	0.6
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene		13	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.5
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.5
78-93-3	2-Butanone	U	5	1.0	5	5	3
71-43-2	Benzene	U	1	1.0	1	1	0.5
107-06-2	1,2-Dichloroethane		3	1.0	1	1	0.4
79-01-6	Trichloroethene		1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.4
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	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.6
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.5
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	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	1
	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	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		108%				
17060-07-0	1,2-Dichloroethane-D4		107%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		91%				

Weq tpi$Hexe$Wyq q ev}$E444444=

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G12LS08

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID-SOUTH

SDG No.: NSA-020

Matrix: (soil/water) WATER

Lab Sample ID: SA2339-4

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

Lab File ID: F5854

Level: (low/med) LOW

Date Received: 05/16/07

% Moisture: not dec. _____

Date Analyzed: 05/24/07

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 Mid-South
PO No:
Sample Date: 05/14/07
Received Date: 05/16/07
Extraction Date:
Analysis Date: 24-MAY-2007 14:53
Report Date: 06/04/2007
Matrix: WATER
% Solids: NA

Lab ID: SA2339-5
Client ID: 014G01LS18
SDG: NSA-020
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG39270
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	0.6
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.6
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.6
75-09-2	Methylene Chloride	U	5	1.0	5	5	2
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.6
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	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.5
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.5
78-93-3	2-Butanone	U	5	1.0	5	5	3
71-43-2	Benzene	U	1	1.0	1	1	0.5
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.4
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.4
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	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.6
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.5
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	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	1
	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	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		107%				
17060-07-0	1,2-Dichloroethane-D4		102%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		92%				

Weq tpi$Hexe$Wyq q ev}$E4444455

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G01LS18

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID-SOUTH

SDG No.: NSA-020

Matrix: (soil/water) WATER

Lab Sample ID: SA2339-5

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

Lab File ID: F5855

Level: (low/med) LOW

Date Received: 05/16/07

% Moisture: not dec. _____

Date Analyzed: 05/24/07

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

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

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

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA Mid-South
PO No:
Sample Date: 05/15/07
Received Date: 05/16/07
Extraction Date:
Analysis Date: 24-MAY-2007 15:27
Report Date: 06/04/2007
Matrix: WATER
% Solids: NA

Lab ID: SA2339-6
Client ID: 014G06LF12
SDG: NSA-020
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG39270
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	0.6
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.6
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.6
75-09-2	Methylene Chloride	U	5	1.0	5	5	2
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.6
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	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.5
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.5
78-93-3	2-Butanone	U	5	1.0	5	5	3
71-43-2	Benzene	U	1	1.0	1	1	0.5
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.4
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.4
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	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.6
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.5
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	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	1
	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	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		98%				
460-00-4	P-Bromofluorobenzene		90%				

Weq tpi$Hexe$Wyq q ev}$E4444457

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G06LF12

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID-SOUTH

SDG No.: NSA-020

Matrix: (soil/water) WATER

Lab Sample ID: SA2339-6

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

Lab File ID: F5856

Level: (low/med) LOW

Date Received: 05/16/07

% Moisture: not dec. _____

Date Analyzed: 05/24/07

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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Weq tpi$Hexe$Wyq q ev}$E4444458

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA Mid-South
PO No:
Sample Date: 05/15/07
Received Date: 05/16/07
Extraction Date:
Analysis Date: 24-MAY-2007 16:01
Report Date: 06/04/2007
Matrix: WATER
% Solids: NA

Lab ID: SA2339-7
Client ID: 014G14LS08
SDG: NSA-020
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG39270
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	0.6
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.6
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.6
75-09-2	Methylene Chloride	U	5	1.0	5	5	2
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene		8	1.0	1	1	0.6
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene		56	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.5
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.5
78-93-3	2-Butanone	U	5	1.0	5	5	3
71-43-2	Benzene	U	1	1.0	1	1	0.5
107-06-2	1,2-Dichloroethane		7	1.0	1	1	0.4
79-01-6	Trichloroethene		32	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.4
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	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene		16	1.0	1	1	0.6
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.5
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	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	1
	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	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		105%				
17060-07-0	1,2-Dichloroethane-D4		102%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		91%				

Weq tpi$Hexe$Wyq q ev}$E4444459

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G14LS08

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA MID-SOUTH SDG No.: NSA-020

Matrix: (soil/water) WATER Lab Sample ID: SA2339-7

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: F5857

Level: (low/med) LOW Date Received: 05/16/07

% Moisture: not dec. _____ Date Analyzed: 05/24/07

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 Mid-South
PO No:
Sample Date: 05/15/07
Received Date: 05/16/07
Extraction Date:
Analysis Date: 25-MAY-2007 17:17
Report Date: 06/04/2007
Matrix: WATER
% Solids: NA

Lab ID: SA2339-8
Client ID: 014G07LF12
SDG: NSA-020
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG39336
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	0.6
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.6
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.6
75-09-2	Methylene Chloride	U	5	1.0	5	5	2
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.6
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	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.5
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.5
78-93-3	2-Butanone	U	5	1.0	5	5	3
71-43-2	Benzene	U	1	1.0	1	1	0.5
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.4
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.4
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	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.6
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.5
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	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	1
	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	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.6
460-00-4	P-Bromofluorobenzene		92%				
2037-26-5	Toluene-D8		94%				
17060-07-0	1,2-Dichloroethane-D4		108%				
1868-53-7	Dibromofluoromethane		103%				

Weq tpi$Hexe$Wyq q ev}$E444445;

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G07LF12

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID-SOUTH

SDG No.: NSA-020

Matrix: (soil/water) WATER

Lab Sample ID: SA2339-8

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

Lab File ID: T6088

Level: (low/med) LOW

Date Received: 05/16/07

% Moisture: not dec. _____

Date Analyzed: 05/25/07

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 Mid-South
PO No:
Sample Date: 05/15/07
Received Date: 05/16/07
Extraction Date:
Analysis Date: 25-MAY-2007 17:49
Report Date: 06/04/2007
Matrix: WATER
% Solids: NA

Lab ID: SA2339-9
Client ID: 014H07LF12
SDG: NSA-020
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG39336
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	0.6
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.6
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.6
75-09-2	Methylene Chloride	U	5	1.0	5	5	2
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.6
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	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.5
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.5
78-93-3	2-Butanone	U	5	1.0	5	5	3
71-43-2	Benzene	U	1	1.0	1	1	0.5
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.4
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.4
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	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.6
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.5
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	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	1
	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	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.6
460-00-4	P-Bromofluorobenzene		90%				
2037-26-5	Toluene-D8		92%				
17060-07-0	1,2-Dichloroethane-D4		107%				
1868-53-7	Dibromofluoromethane		103%				

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014H07LF12

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID-SOUTH

SDG No.: NSA-020

Matrix: (soil/water) WATER

Lab Sample ID: SA2339-9

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

Lab File ID: T6089

Level: (low/med) LOW

Date Received: 05/16/07

% Moisture: not dec. _____

Date Analyzed: 05/25/07

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 Mid-South
PO No:
Sample Date: 05/14/07
Received Date: 05/16/07
Extraction Date:
Analysis Date: 24-MAY-2007 16:35
Report Date: 06/04/2007
Matrix: WATER
% Solids: NA

Lab ID: SA2339-14
Client ID: 014G05LS18
SDG: NSA-020
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG39270
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	0.6
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.6
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.6
75-09-2	Methylene Chloride	U	5	1.0	5	5	2
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.6
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	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.5
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.5
78-93-3	2-Butanone	U	5	1.0	5	5	3
71-43-2	Benzene	U	1	1.0	1	1	0.5
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.4
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.4
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	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.6
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.5
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	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	1
	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	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		111%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		92%				

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G05LS18

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID-SOUTH

SDG No.: NSA-020

Matrix: (soil/water) WATER

Lab Sample ID: SA2339-14

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

Lab File ID: F5858

Level: (low/med) LOW

Date Received: 05/16/07

% Moisture: not dec. _____

Date Analyzed: 05/24/07

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 Mid-South
PO No:
Sample Date: 05/15/07
Received Date: 05/17/07
Extraction Date:
Analysis Date: 25-MAY-2007 18:21
Report Date: 06/04/2007
Matrix: WATER
% Solids: NA

Lab ID: SA2373-2
Client ID: 014G02LS18
SDG: NSA-020
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG39336
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	0.6
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.6
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.6
75-09-2	Methylene Chloride	U	5	1.0	5	5	2
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene		2	1.0	1	1	0.6
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene		170	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.5
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.5
78-93-3	2-Butanone	U	5	1.0	5	5	3
71-43-2	Benzene	U	1	1.0	1	1	0.5
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.4
79-01-6	Trichloroethene	J	0.6	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.4
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	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.6
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.5
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	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	1
	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	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.6
460-00-4	P-Bromofluorobenzene		89%				
2037-26-5	Toluene-D8		90%				
17060-07-0	1,2-Dichloroethane-D4		108%				
1868-53-7	Dibromofluoromethane		100%				

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G02LS18

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA MID-SOUTH SDG No.: NSA-020

Matrix: (soil/water) WATER Lab Sample ID: SA2373-2

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: T6090

Level: (low/med) LOW Date Received: 05/17/07

% Moisture: not dec. _____ Date Analyzed: 05/25/07

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

Cert No E87604

Report of Analytical Results

Client: Ronnie Moody
Spectra Tech, Inc.
132 Jefferson Court
Oak Ridge,TN 37830

Lab Sample ID: SA2339-7
Report Date: 01-JUN-07
Client PO:
Project: NSA Mid-South
SDG: NSA-020

Sample Description	Matrix	Date Sampled	Date Received
014G14LS08	AQ	15-MAY-07	16-MAY-07

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	WG39011	17-MAY-07 09:28:15	N/A	N/A	AMB	
Total Organic Carbon	1.2 mg/L	1	EPA 415.1	WG39267	24-MAY-07 02:06:57	N/A	N/A	CP	

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

http://katahdinlab.com
sales@katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Ronnie Moody
Spectra Tech, Inc.
132 Jefferson Court
Oak Ridge,TN 37830

Lab Sample ID: SA2373-1
Report Date: 01-JUN-07
Client PO:
Project: NSA Mid South
SDG: NSA-020

Sample Description	Matrix	Date Sampled	Date Received
014G02LS18	AQ	16-MAY-07	17-MAY-07

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	WG39012	18-MAY-07 10:50:41	N/A	N/A	AMB	
Total Organic Carbon	4.1 mg/L	1	EPA 415.1	WG39469	30-MAY-07 18:47:04	N/A	N/A	CP	

echnology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

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microseeps

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

Page: Page 1 of 16
Lab Proj #: P0708311
Report Date: 08/30/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Laboratory Results

Total pages in data package: 152

Lab Sample #	Client Sample ID
P0708311-01	014G02LS19
P0708311-02	039G03LF09
P0708311-03	03912LF16
P0708311-04	039G10LF16
P0708311-05	039G04LF16
P0708311-06	039G02LF09
P0708311-07	039G13LF16
P0708311-08	014G14LS09
P0708311-09	014G12LS09
P0708311-10	014G13LS09

Microseeps test results meet all the requirements of the NELAC standards.

Approved By: Rachel Tippett

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 The samples were received at the laboratory on 8/16/2007 in the proper containers and in good condition. The requested analyses were completed using routine SOP and QA/QC procedures. There were no unusual circumstances noted during the analyses of these samples.

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: Tommy Lee
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 2 of 16
Lab Proj #: P0708311
Report Date: 08/30/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
014G02LS19	Water	P0708311-01	14 Aug 07 9:40	16 Aug 07 13:14

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.009	0 025	ug/L	AM20GAX	8/27/07	rw
N Ethene		0 066	0.025	ug/L	AM20GAX	8/27/07	rw
N Methane		200 000	0.100	ug/L	AM20GAX	8/27/07	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 samples received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 3 of 16
Lab Proj #: P0708311
Report Date: 08/30/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G03LF09	Vapor	P0708311-02	15 Aug 07 13:00	16 Aug. 07 13:14

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0 010	0 010	ug/L	AM20GAX	8/29/07	sl
N Ethene	U	< 0 010	0 010	ug/L	AM20GAX	8/29/07	sl
N Hydrogen		6.200	0.600	nM	AM20GAX	8/29/07	sl
N Methane		5600.000	0 015	ug/L	AM20GAX	8/29/07	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 samples received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 4 of 16
Lab Proj #: P0708311
Report Date: 08/30/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
03912LF16	Vapor	P0708311-03	15 Aug 07 11.30	16 Aug. 07 13:14

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.004	0.010	ug/L	AM20GAX	8/29/07	sl
N Ethene		0.011	0.010	ug/L	AM20GAX	8/29/07	sl
N Hydrogen		1.500	0.600	nM	AM20GAX	8/29/07	sl
N Methane		21.000	0.015	ug/L	AM20GAX	8/29/07	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 sam[illegible] received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 5 of 16
Lab Proj #: P0708311
Report Date: 08/30/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G10LF16	Vapor	P0708311-04	15 Aug 07 9:50	16 Aug. 07 13:14

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.003	0.010	ug/L	AM20GAX	8/29/07	sl
N Ethene		0 017	0.010	ug/L	AM20GAX	8/29/07	sl
N Hydrogen		18.000	0 600	nM	AM20GAX	8/29/07	sl
N Methane		4.600	0 015	ug/L	AM20GAX	8/29/07	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 sa received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 6 of 16
Lab Proj #: P0708311
Report Date: 08/30/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G04LF16	Vapor	P0708311-05	15 Aug. 07 14:40	16 Aug 07 13:14

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0 010	0.010	ug/L	AM20GAX	8/29/07	sl
N Ethene	U	< 0.010	0 010	ug/L	AM20GAX	8/29/07	sl
N Hydrogen		2 600	0 600	nM	AM20GAX	8/29/07	sl
N Methane		12000 000	0.015	ug/L	AM20GAX	8/29/07	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 sa[illegible] received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 7 of 16
Lab Proj #: P0708311
Report Date: 08/30/07
Client Proj Name: NAS Mid South
Client Proj #. N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G02LF09	Vapor	P0708311-06	15 Aug 07 11:00	16 Aug 07 13:14

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.004	0.010	ug/L	AM20GAX	8/29/07	sl
N Ethene		0.032	0.010	ug/L	AM20GAX	8/29/07	sl
N Hydrogen		6 000	0.600	nM	AM20GAX	8/29/07	sl
N Methane		440 000	0.015	ug/L	AM20GAX	8/29/07	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 sa[illegible] received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 8 of 16
Lab Proj #: P0708311
Report Date: 08/30/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G13LF16	Vapor	P0708311-07	14 Aug 07 14:00	16 Aug 07 13.14

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	8/28/07	sl
N Ethene		0.014	0.010	ug/L	AM20GAX	8/28/07	sl
N Hydrogen		2.600	0.600	nM	AM20GAX	8/28/07	sl
N Methane		0.810	0.015	ug/L	AM20GAX	8/28/07	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 sa[illegible]s received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 9 of 16
Lab Proj #: P0708311
Report Date: 08/30/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
014G14LS09	Vapor	P0708311-08	14 Aug 07 9:20	16 Aug 07 13:14

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.006	0.010	ug/L	AM20GAX	8/28/07	sl
N Ethene		0.021	0.010	ug/L	AM20GAX	8/28/07	sl
N Hydrogen		2.800	0.600	nM	AM20GAX	8/28/07	sl
N Methane		0.620	0.015	ug/L	AM20GAX	8/28/07	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 sa[illegible] as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 10 of 16
Lab Proj #: P0708311
Report Date: 08/30/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
014G12LS09	Vapor	P0708311-09	14 Aug. 07 10:20	16 Aug. 07 13:14

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.004	0.010	ug/L	AM20GAX	8/28/07	sl
N Ethene		0.069	0.010	ug/L	AM20GAX	8/28/07	sl
N Hydrogen		2.300	0.600	nM	AM20GAX	8/28/07	sl
N Methane		130.000	0.015	ug/L	AM20GAX	8/28/07	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 sa[illegible]es received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 11 of 16
Lab Proj #: P0708311
Report Date: 08/30/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
014G13LS09	Vapor	P0708311-10	14 Aug. 07 7:45	16 Aug 07 13:14

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.019	0.010	ug/L	AM20GAX	8/28/07	sl
N Ethene		0.025	0.010	ug/L	AM20GAX	8/28/07	sl
N Hydrogen		5.700	0.600	nM	AM20GAX	8/28/07	sl
N Methane		18.000	0.015	ug/L	AM20GAX	8/28/07	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 samples received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Lab Proj #: P0708311
Report Date: 08/30/07
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

M070827003-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

M070827003-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Ethane	48.000	ug/L	41.68	115.00	75 - 125
Ethene	44.000	ug/L	38.89	113.00	75 - 125
Methane	840.000	ug/L	822.80	102.00	75 - 125

M070827003-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Ethane	49.000	ug/L	41.68	118.00	75 - 125	2.06	0 - 20
Ethene	44.000	ug/L	38.89	113.00	75 - 125	0.00	0 - 20
Methane	810.000	ug/L	822.80	98.00	75 - 125	3.64	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 samples received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 13 of 16
Lab Proj #: P0708311
Report Date: 08/30/07
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

M070828022-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

M070828022-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	16.000	ug/L	15.41	104.00	75 - 125

M070828022-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	33.000	ug/L	32.44	102.00	75 - 125	0.00	0 - 20
thane	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 sa[illegible] as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used. N - NELAC certified analysis

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

Page: Page 14 of 16
Lab Proj #: P0708311
Report Date: 08/30/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Prep Method: Hydrogen by Bubble Strip

Analysis Method: Hydrogen by Bubble Strip

M070828024-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Hydrogen	< 0.600	nM		0 600		- NA

M070828024-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hydrogen	50 000	nM	48.91	102 00	75 - 125

M070828024-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Hydrogen	49 000	nM	48.91	100.00	75 - 125	2 02	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: Tommy Lee
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 15 of 16
Lab Proj #: P0708311
Report Date: 08/30/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Prep Method: Hydrogen by Bubble Strip

Analysis Method: Hydrogen by Bubble Strip

M070829030-MB

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

M070829030-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hydrogen	49.000	nM	48.91	100.00	75 - 125

M070829030-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Hydrogen	49.000	nM	48.91	100.00	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: Tommy Lee
Address: 132 Jefferson Court
Oak Ridge, TN 37830-4821

Page: Page 16 of 16
Lab Proj #: P0708311
Report Date: 08/30/07
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

M070829031-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

M070829031-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	16.000	ug/L	15 41	104 00	75 - 125

M070829031-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	33.000	ug/L	32.44	102.00	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 samples as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Chain of Custody Documents

Microseeps Lab. Proj. # P0708311

CHAIN - [illegible] - 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

Co. Address : 132 Jefferson Ct Oak Ridge TN 37830

Phone # : 8654837210 Fax # : 8654837262

Proj. Manager : PAUL GENTRY

Proj. Name/Number : NSA Mid South

Sampler's signature : [signature]

Cooler Temp.

Results to :

Invoice to :

	Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# Bottles	Dis Hydro (Air)	Methane Ethane Ethene (water)										Remarks :
1	014G02LS19		X			8-14-07	0940	1		1										
2	039G03LF09		X	X		81507	1300	2	1	1										
3	0312LF16		X	X		81507	1130	2	1	1										
4	039G10LF16		X	X		81507	0950	2	1	1										
5	039G04LF16		X	X		81507	1440	2	1	1										
6	039G02LF09		X	X		81507	1100	2	1	1										
7	039G13LF16		X	X		81407	1400	2	1	1										
8	014G14LS09		X	X		081407	0920	2	1	1										
9	014G12LS09		X	X		81407	1020	2	1	1										
10	014G13LS09		X	X		81407	~~0740~~ 0745	2	1	1										

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[signature]	SpectraTech	8-15-07	1600	[signature]		8/16/07	
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

P0708311

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

FedEx Express. US Airbill

8555 8472 8007

0200

Form ID No.

FedEx Retrieval Copy

1 From

Date 7-15-07 Sender's FedEx Account Number 2812-6OR-9

Sender's Name PAUL GENTRY Phone 865 804 6404

Company Spectra Tech Inc

Address 132 Jackson St

Dept./Floor/Suite/Room

City Oak Ridge State TN ZIP 37830

2 Your Internal Billing Reference

3 To

Recipient's Name Phone 412 826 5245

Company Microscope Inc

Recipient's Address 220 William Pitt Way

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Pittsburg State PA ZIP 15238

8555 8472 8007

4a Express Package Service To add SATURDAY Delivery, see Section 6. Packages up to 150 lbs. * To most locations

1 ☒ FedEx Priority Overnight Next business morning.*

5 ☐ FedEx Standard Overnight Next business afternoon.*

6 ☐ FedEx First Overnight Earliest next business morning delivery to select locations.*

3 ☐ FedEx 2Day Second business day.*

20 ☐ FedEx Express Saver Third business day.*

FedEx Envelope rate not available. Minimum charge: One-pound rate.

4b Express Freight Service To add SATURDAY Delivery, see Section 6. Packages over 150 lbs. ** To most locations

7 ☐ FedEx 1Day Freight* Next business day.**

8 ☐ FedEx 2Day Freight Second business day.**

83 ☐ FedEx 3Day Freight Third business day.**

* Call for Confirmation:

5 Packaging * Declared value limit $500.

6 ☐ FedEx Envelope*

2 ☐ FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak

3 ☐ FedEx Box

4 ☐ FedEx Tube

1 ☒ Other

6 Special Handling

3 ☐ SATURDAY Delivery Available ONLY for FedEx Priority Overnight, FedEx 2Day, FedEx 1Day Freight, and FedEx 2Day Freight to select ZIP codes.

Include FedEx address in Section 3.

1 ☐ HOLD Weekday at FedEx Location Not available for FedEx First Overnight.

31 ☐ HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

☐ No

4 ☐ Yes As per attached Shipper's Declaration.

☐ Yes Shipper's Declaration not required.

6 ☐ Dry Ice Dry ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

☐ Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below.

1 ☒ Sender Acct. No. in Section 1 will be billed.

2 ☐ Recipient

3 ☐ Third Party

4 ☐ Credit Card

5 ☐ Cash/Check

Obtain Recip. Acct. No. ☐

FedEx Acct. No. Credit Card No.

Exp. Date

Total Packages 1

Total Weight 12 lb

Total Charges

Credit Card Auth.

Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 NEW Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

☐ No Signature Required Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature Anyone at recipient's address may sign for delivery. Fee applies.

34 ☐ Indirect Signature If someone is available at recipient's address, anyone at a neighboring address may sign for delivery. Fee applies.

520

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Questions? Go to our Web site at fedex.com or call 1.800.GO-FedEx (1.800.463.3339)

19

P070B311

SPECTRA TECH NUS, INC.
NSA MID SOUTH
SDG: NSA-025
SA4429

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

SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
SPECTRA TECH, INC.
CASE NSA MID-SOUTH
SDG: NSA-025
SA4429

Sample Receipt

The following samples were received on August 15, 2007 and were logged in under Katahdin Analytical Services work order number SA4429 for a hardcopy due date of September 3, 2007.

KATAHDIN Sample No.	SPECTRA TECH Sample Identification
SA4429-1	014G02LS19
SA4429-2	014G07LF13
SA4429-3	014G06LF13
SA4429-4	014G14LS09
SA4429-5	014G12LS09
SA4429-6	014G13LS09
SA4429-7	014T081407
SA4429-8	014F081407-DION
SA4429-10	014E081407

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-025 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. Sample SA4429-5 was used for the matrix spike (MS) and matrix spike duplicate (MSD), as per client request. 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

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 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. 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.

Sample SA4429-1 was manually integrated for the target analytes trans-1,2-dichloroethene and 1,2-dichloroethane. The specific reasons for the manual integrations are indicated on the raw data by a manual integration code (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.

Wet Chemistry Analysis

The samples of SDG NSA-025 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 8.30.07

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.

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

Client: Spectra - Tech	KAS PM: AJC	Sampled By: Client
Project:	KIMS Entry By: DD	Delivered By: FEDEX
KAS Work Order#: SA4429 & SA4451	KIMS Review By: AJC	Received By: DD
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 051507 0940

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				
4. Chain of Custody matches samples?	X				
5. Temperature Blanks present?	X				Temp (°C): 3.3
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? **Aqueous:** No bubble larger than a pea	X				
Soil/Sediment: Received in airtight container?				X	
Received in methanol?				X	
Methanol covering soil?				X	
8. Trip Blank present in cooler?	X				
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?				✓	

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

0000005

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, Inc | Contact: PAUL GENTRY | Phone #: (865) 483-7210 | Fax #: (865) 483-726

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): PAUL GENTRY / [signature] | Copies To:

LAB USE ONLY | WORK ORDER #: SA4429 & SA4451 | 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)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	014G02LS19	8-14-07/0940	GW	6	3	2	1								
	014G07LF13	8-13-07/1450	GW	3	3										
	014G06LF13	8-13-07/1445	GW	3	3										
	014G14LS09	8-14-07/0820	GW	6	3	2	1								
	014G12LS09MSD	8-14-07/10:15	GW	3	3										
	014G12LS09MS	8-14-07/10:15	GW	3	3										
	014G12LS09	8-14-07/10:15	GW	6	3	2	1								
	014G13LS09	8-14-07/0745	GW	6	3	2	1								
	014T081407	8-14-07/1100	T	3	3										
	014F081407-DUP	8-14-07/10:15	W	3	3										
	039G13LF16	8-14-07/14:00	GW	6	3	2	1								
	014E081407	8-14-07/10:15	W	3	3										
		/													
		/													
		/													
		/													

COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	8-14-07 4:00 PM	[signature] 08/15/07 0940			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
					0000006

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

ORIGINAL

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Aug. 15, 2007
05:14 PM

Login Number: SA4429

Account: SPECTRA001 NoWeb
Spectra Tech, Inc.

Project: SPECTRANSA001

Primary Report Address:
Ronnie Moody
Spectra Tech, Inc.
132 Jefferson Court

Oak Ridge,TN 37830

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	:
CHECK NO.	:
CLIENT PO#	:
COOLER TEMPERATURE	: 3.3
DELIVERY SERVICES	: FEDEX
EDD FORMAT	: KAS105QC-CSV
MAIL DATE	:
PM	: AJC
PROJECT NAME	: NSA Mid South
QC LEVEL	: IV
REGULATORY LIST	: NFESC
REPORT INSTRUCTIONS	: Rpt to MDL. Send copy of rpt on CD.
SDG ID	: NSA-025
SDG STATUS	: Begin/END

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Comments
SA4429-1	014G02LS19	14-AUG-07 09:40	15-AUG-07			03-SEP-07	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	E353.2-NITRATE	16-AUG-07	125mL Plastic	1
Aqueous	S	E415.1-TOC	11-SEP-07	40 mL Vial+H2SO4	2
Aqueous	S	SHIPPING			
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	28-AUG-07	40mL Vial+HCl	3

SA4429-2	014G07LF13	13-AUG-07 14:50	15-AUG-07			03-SEP-07	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	27-AUG-07	40mL Vial+HCl	3

SA4429-3	014G06LF13	13-AUG-07 14:45	15-AUG-07			03-SEP-07	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	27-AUG-07	40mL Vial+HCl	3

SA4429-4	014G14LS09	14-AUG-07 08:20	15-AUG-07			03-SEP-07	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	E353.2-NITRATE	16-AUG-07	125mL Plastic	1
Aqueous	S	E415.1-TOC	11-SEP-07	40 mL Vial+H2SO4	2
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	28-AUG-07	40mL Vial+HCl	3

SA4429-5	014G12LS09	14-AUG-07 10:15	15-AUG-07			03-SEP-07	MS/MSD on VOA.

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	E353.2-NITRATE	16-AUG-07	125mL Plastic	1
Aqueous	S	E415.1-TOC	11-SEP-07	40 mL Vial+H2SO4	2
Aqueous	S	MS/MSD-VOA			
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	28-AUG-07	40mL Vial+HCl	9

SA4429-6	014G13LS09	14-AUG-07 07:45	15-AUG-07			03-SEP-07	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	E353.2-NITRATE	16-AUG-07	125mL Plastic	1
Aqueous	S	E415.1-TOC	11-SEP-07	40 mL Vial+H2SO4	2
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	28-AUG-07	40mL Vial+HCl	3

0000007

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Aug. 15, 2007
05:14 PM

Login Number: SA4429

Account: SPECTRA001 NoWeb
Spectra Tech, Inc.

Project: SPECTRANSA001

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Comments
SA4429-7	014T081407	14-AUG-07 11:00	15-AUG-07			03-SEP-07	
Matrix	*Product*	*Hold Date (shortest)*	*Bottle Type*		*Bottle Count*		
Aqueous S	SW8260-LIB-SEARCH						
Aqueous S	SW8260-S	28-AUG-07	40mL Vial+HCl		3		
SA4429-8	014F081407-DION	14-AUG-07 10:15	15-AUG-07			03-SEP-07	
Matrix	*Product*	*Hold Date (shortest)*	*Bottle Type*		*Bottle Count*		
Aqueous S	SW8260-LIB-SEARCH						
Aqueous S	SW8260-S	28-AUG-07	40mL Vial+HCl		3		
SA4429-10	014E081407	14-AUG-07 10:15	15-AUG-07			03-SEP-07	
Matrix	*Product*	*Hold Date (shortest)*	*Bottle Type*		*Bottle Count*		
Aqueous S	SW8260-LIB-SEARCH						
Aqueous S	SW8260-S	28-AUG-07	40mL Vial+HCl		3		

Total Samples: *9* ***Total Analyses:*** *28*

0000008

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 Mid South
PO No:
Sample Date: 08/14/07
Received Date: 08/15/07
Extraction Date:
Analysis Date: 22-AUG-2007 11:48
Report Date: 08/30/2007
Matrix: WATER
% Solids: NA

Lab ID: SA4429-1
Client ID: 014G02LS19
SDG: NSA-025
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG42506
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		20	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene		2	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		200	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	J	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	0.6	1.0	1	1	0.3
79-01-6	Trichloroethene		77	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		34	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.4
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		95%				
2037-26-5	Toluene-D8		97%				
460-00-4	P-Bromofluorobenzene		95%				

Weq tpi$Hexe$Wyq q ev}$E4444448

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G02LS19

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID SOUTH

SDG No.: NSA-025

Matrix: (soil/water) WATER

Lab Sample ID: SA4429-1

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

Lab File ID: S6319

Level: (low/med) LOW

Date Received: 08/15/07

% Moisture: not dec. _____

Date Analyzed: 08/22/07

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 Mid South
PO No:
Sample Date: 08/13/07
Received Date: 08/15/07
Extraction Date:
Analysis Date: 23-AUG-2007 17:15
Report Date: 08/30/2007
Matrix: WATER
% Solids: NA

Lab ID: SA4429-2RA
Client ID: 014G07LF13
SDG: NSA-025
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG42590
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		91%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		88%				

Weq tpi$Hexe$Wyq q ev}$E444444:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G07LF13

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID SOUTH

SDG No.: NSA-025

Matrix: (soil/water) WATER

Lab Sample ID: SA4429-2RA

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

Lab File ID: S6353

Level: (low/med) LOW

Date Received: 08/15/07

% Moisture: not dec. _____

Date Analyzed: 08/23/07

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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Weq tpi$Hexe$Wyq q ev}$E444444;

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA Mid South
PO No:
Sample Date: 08/13/07
Received Date: 08/15/07
Extraction Date:
Analysis Date: 22-AUG-2007 12:50
Report Date: 08/30/2007
Matrix: WATER
% Solids: NA

Lab ID: SA4429-3
Client ID: 014G06LF13
SDG: NSA-025
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG42506
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		95%				
17060-07-0	1,2-Dichloroethane-D4		93%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		90%				

Weq tpi$Hexe$Wyq q ev}$E444444<

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G06LF13

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID SOUTH

SDG No.: NSA-025

Matrix: (soil/water) WATER

Lab Sample ID: SA4429-3

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

Lab File ID: S6321

Level: (low/med) LOW

Date Received: 08/15/07

% Moisture: not dec. _____

Date Analyzed: 08/22/07

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 Mid South
PO No:
Sample Date: 08/14/07
Received Date: 08/15/07
Extraction Date:
Analysis Date: 22-AUG-2007 13:21
Report Date: 08/30/2007
Matrix: WATER
% Solids: NA

Lab ID: SA4429-4
Client ID: 014G14LS09
SDG: NSA-025
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG42506
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		13	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		100	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		9	1.0	1	1	0.3
79-01-6	Trichloroethene		72	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		18	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		94%				
17060-07-0	1,2-Dichloroethane-D4		90%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		89%				

Weq tpi$Hexe$Wyq q ev}$E4444454

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G14LS09

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA MID SOUTH SDG No.: NSA-025

Matrix: (soil/water) WATER Lab Sample ID: SA4429-4

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: S6322

Level: (low/med) LOW Date Received: 08/15/07

% Moisture: not dec. _____ Date Analyzed: 08/22/07

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 Mid South
PO No:
Sample Date: 08/14/07
Received Date: 08/15/07
Extraction Date:
Analysis Date: 23-AUG-2007 17:45
Report Date: 08/30/2007
Matrix: WATER
% Solids: NA

Lab ID: SA4429-5
Client ID: 014G12LS09
SDG: NSA-025
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG42590
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		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		14	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		3	1.0	1	1	0.3
79-01-6	Trichloroethene		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		94%				
17060-07-0	1,2-Dichloroethane-D4		88%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		85%				

Weq tpi$Hexe$Wyq q ev}$E4444456

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G12LS09

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID SOUTH

SDG No.: NSA-025

Matrix: (soil/water) WATER

Lab Sample ID: SA4429-5

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

Lab File ID: S6354

Level: (low/med) LOW

Date Received: 08/15/07

% Moisture: not dec. _____

Date Analyzed: 08/23/07

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 Mid South
PO No:
Sample Date: 08/14/07
Received Date: 08/15/07
Extraction Date:
Analysis Date: 22-AUG-2007 13:52
Report Date: 08/30/2007
Matrix: WATER
% Solids: NA

Lab ID: SA4429-6
Client ID: 014G13LS09
SDG: NSA-025
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG42506
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		4	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		45	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		22	1.0	1	1	0.3
79-01-6	Trichloroethene		4	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane		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		2	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		91%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		88%				

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G13LS09

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID SOUTH

SDG No.: NSA-025

Matrix: (soil/water) WATER

Lab Sample ID: SA4429-6

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

Lab File ID: S6323

Level: (low/med) LOW

Date Received: 08/15/07

% Moisture: not dec. _____

Date Analyzed: 08/22/07

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 Mid South
PO No:
Sample Date: 08/14/07
Received Date: 08/15/07
Extraction Date:
Analysis Date: 22-AUG-2007 10:47
Report Date: 08/30/2007
Matrix: WATER
% Solids: NA

Lab ID: SA4429-7
Client ID: 014T081407
SDG: NSA-025
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG42506
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	J	1	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	0.7	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		94%				
17060-07-0	1,2-Dichloroethane-D4		92%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		92%				

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014T081407

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID SOUTH

SDG No.: NSA-025

Matrix: (soil/water) WATER

Lab Sample ID: SA4429-7

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

Lab File ID: S6317

Level: (low/med) LOW

Date Received: 08/15/07

% Moisture: not dec. _____

Date Analyzed: 08/22/07

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 Mid South
PO No:
Sample Date: 08/14/07
Received Date: 08/15/07
Extraction Date:
Analysis Date: 23-AUG-2007 18:16
Report Date: 08/30/2007
Matrix: WATER
% Solids: NA

Lab ID: SA4429-8
Client ID: 014F081407-DION
SDG: NSA-025
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG42590
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		7	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		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		93%				
17060-07-0	1,2-Dichloroethane-D4		87%				
2037-26-5	Toluene-D8		91%				
460-00-4	P-Bromofluorobenzene		86%				

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014F081407-DION

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID SOUTH

SDG No.: NSA-025

Matrix: (soil/water) WATER

Lab Sample ID: SA4429-8

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

Lab File ID: S6355

Level: (low/med) LOW

Date Received: 08/15/07

% Moisture: not dec. _____

Date Analyzed: 08/23/07

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

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA Mid South
PO No:
Sample Date: 08/14/07
Received Date: 08/15/07
Extraction Date:
Analysis Date: 22-AUG-2007 11:18
Report Date: 08/30/2007
Matrix: WATER
% Solids: NA

Lab ID: SA4429-10
Client ID: 014E081407
SDG: NSA-025
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG42506
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		6	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.4
67-64-1	Acetone		10	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		8	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		95%				
17060-07-0	1,2-Dichloroethane-D4		91%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		88%				

Weq tpi$Hexe$Wyq q ev}$E4444464

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014E081407

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID SOUTH

SDG No.: NSA-025

Matrix: (soil/water) WATER

Lab Sample ID: SA4429-10

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

Lab File ID: S6318

Level: (low/med) LOW

Date Received: 08/15/07

% Moisture: not dec. _____

Date Analyzed: 08/22/07

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

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Weq tpi$Hexe$Wyq q ev}$E4444465

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Ronnie Moody
Spectra Tech, Inc.
132 Jefferson Court
Oak Ridge,TN 37830

Lab Sample ID: SA4429-1
Report Date: 27-AUG-07
Client PO:
Project: NSA Mid South
SDG: NSA-025

Sample Description	Matrix	Date Sampled	Date Received
014G02LS19	AQ	14-AUG-07	15-AUG-07

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	WG42272	15-AUG-07 12:23:58	N/A	N/A	KK	
Total Organic Carbon	4.6 mg/L	1	EPA 415.1	WG42370	16-AUG-07 00:36:11	N/A	N/A	CP	

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

http://katahdinlab.com
sales@katahdinlab.com

Weq tpi$Hexe$Wyq q ev}$4444466

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Ronnie Moody
Spectra Tech, Inc.
132 Jefferson Court
Oak Ridge,TN 37830

Lab Sample ID: SA4429-4
Report Date: 27-AUG-07
Client PO:
Project: NSA Mid South
SDG: NSA-025

Sample Description	Matrix	Date Sampled	Date Received
014G14LS09	AQ	14-AUG-07	15-AUG-07

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	WG42272	15-AUG-07 12:25:04	N/A	N/A	KK	
Total Organic Carbon	1.1 mg/L	1	EPA 415.1	WG42370	16-AUG-07 00:48:03	N/A	N/A	CP	

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Ronnie Moody
Spectra Tech, Inc.
132 Jefferson Court
Oak Ridge,TN 37830

Lab Sample ID: SA4429-5
Report Date: 27-AUG-07
Client PO:
Project: NSA Mid South
SDG: NSA-025

Sample Description	Matrix	Date Sampled	Date Received
014G12LS09	AQ	14-AUG-07	15-AUG-07

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	WG42272	15-AUG-07 12:26:10	N/A	N/A	KK	
Total Organic Carbon	1.7 mg/L	1	EPA 415.1	WG42370	16-AUG-07 01:00:06	N/A	N/A	CP	

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Weq tpi$Hexe$Wyq q ev}$E4444468

Katahdin ANALYTICAL SERVICES

Cert. No. E87604

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Ronnie Moody
Spectra Tech, Inc.
132 Jefferson Court
Oak Ridge,TN 37830

Lab Sample ID: SA4429-6
Report Date: 27-AUG-07
Client PO:
Project: NSA Mid South
SDG: NSA-025

Sample Description	Matrix	Date Sampled	Date Received
014G13LS09	AQ	14-AUG-07	15-AUG-07

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	WG42272	15-AUG-07 12:27:16	N/A	N/A	KK	
Total Organic Carbon	1.2 mg/L	1	EPA 415.1	WG42370	16-AUG-07 01:36:12	N/A	N/A	CP	

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http://katahdinlab.com
sales@katahdinlab.com

SPECTRA TECH, INC.
NSA MID SOUTH
SDG: NSA-027
SA6468

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

Katahdin ANALYTICAL SERVICES

Cert. No. E87604

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SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
SPECTRA TECH, INC.
CASE NSA MID-SOUTH
SDG: NSA-027
SA6468

Sample Receipt

The following samples were received on November 7, 2007 and were logged in under Katahdin Analytical Services work order number SA6468 for a hardcopy due date of November 28, 2007.

KATAHDIN Sample No.	SPECTRA TECH Sample Identification
SA6468-1	014T110607
SA6468-4	014G07LF14
SA6468-5	014G02LS20
SA6468-6	014G12LS10
SA6468-7	014G06LF14
SA6468-8	014G13LS10
SA6468-9	014G14LS10

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-027 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.

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8260B Analysis

Sample SA6468-5 was used for the Matrix Spike (MS) and Matrix Spike Duplicate (MSD), as per client request.

The initial calibration analyzed on the Z instrument on 10/26/07 had a %RSD values for the analyte chloroethane that exceeded the method acceptance limit of 15%. The analyte failed for both the linear and quadratic models due to the correlation coefficient and the coefficient of determination being less than the method acceptance criteria of 0.995 and 0.990 respectively. This compound was calibrated using the average model. Since this analyte was not detected above the MDL in the associated sample, the sample was not reanalyzed.

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 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. 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.

Sample SA6468-5 was manually integrated for the target analyte 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.

Wet Chemistry Analysis

The samples of SDG NSA-027 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.

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Katahdin
ANALYTICAL SERVICES

Cert. No. E87604

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 12.4.07

Leslie Dimond
Quality Assurance Officer

000004

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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 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.

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

Client: Spectra Tech	KAS PM: ASC	Sampled By: Client
Project:	KIMS Entry By: DJ	Delivered By: FEDEX
KAS Work Order#: SA6465 & SA6499	KIMS Review By: ADC	Received By: DJ
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 11/07/07 1000

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				
4. Chain of Custody matches samples?	X				
5. Temperature Blanks present?	X				Temp (°C): 1.0
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?					
Aqueous: No bubble larger than a pea	X				
Soil/Sediment: Received in airtight container?				X	
Received in methanol?				X	
Methanol covering soil?				X	
8. Trip Blank present in cooler?	X				
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?				✓	

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

received one broken VOA vial for sample 014G07LF14

Client did not put TOC and nitrate on COC for sample 014G14C10 but lab received bottles for these tests. — Added to COC per Paul Gentry 11/7/07

0000006

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 INC
Contact: Paul Gentry
Phone #: (865) 483 7210
Fax #: ( )
Address: 132 JEFFERSON CT.
City: OAKRIDGE
State: TN
Zip Code: 37830
Purchase Order #:
Proj. Name / No.: NSA MidSouth
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): CHRISTOPHER SEIFERT
Copies To:

LAB USE ONLY
WORK ORDER #: SA6468-0
KATAHDIN PROJECT NUMBER SA6499

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)	NITRATES (Filt. ☐Y ☐N)	TOC (Filt. ☐Y ☐N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	014T110607	11/6/07/12:00	W	2	2									
	039G13LF17	11/6/07/1430	GW	6	3	1	2							
	039G10LF17	11/6/07/1430	GW	6	3	1	2							
	014G07LF14	11/6/07/1236	GW	3	3									
	014G02LS20	11/6/07/1010	GW	12	9	1	2							
	014G12LS10	11/5/07/1420	GW	3	3									
	014G06LF14	11/6/07/1250	GW	3	3									
	014G13LS10	11/6/07/0945	GW	3	3									
	014G14LS10	11/6/07/0950	GW	3	3	1	2							
		/												
		/												
		/												
		/												
		/												
		/												
		/												

COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
	11/6/07 1551	11/07/10W			
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 SERVICES EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS

ORIGINAL

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Nov. 08, 2007
04:28 PM

Login Number: SA6468

Account: SPECTRA001
Spectra Tech, Inc.

Project: SPECTRANSA001

NoWeb

Login Information

ANALYSIS INSTRUCTIONS	:
CHECK NO.	:
CLIENT PO#	:
COOLER TEMPERATURE	: 1.0
DELIVERY SERVICES	: FEDEX
EDD FORMAT	: KAS105QC-CSV
MAIL DATE	:
PM	: AJC
PROJECT NAME	: NSA Mid South
QC LEVEL	: IV
REGULATORY LIST	: NFESC
REPORT INSTRUCTIONS	: Rpt to MDL. Send copy of rpt on CD.
SDG ID	: NSA-027
SDG STATUS	: Begin/END

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

Oak Ridge,TN 37830

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	Comments
SA6468-1	014T110607	06-NOV-07 12:00	07-NOV-07			28-NOV-07	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	20-NOV-07	40mL Vial+HCl	2

SA6468-4	014G07LF14	06-NOV-07 12:36	07-NOV-07			28-NOV-07	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	20-NOV-07	40mL Vial+HCl	3

SA6468-5	014G02LS20	06-NOV-07 10:10	07-NOV-07			28-NOV-07	MS/MSD for VOAs.

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	E353.2-NITRATE	08-NOV-07	125mL Plastic	1
Aqueous	S	E415.1-TOC	04-DEC-07	40 mL Vial+H2SO4	2
Aqueous	S	MS/MSD-VOA			
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	20-NOV-07	40mL Vial+HCl	9

SA6468-6	014G12LS10	05-NOV-07 14:20	07-NOV-07			28-NOV-07	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	19-NOV-07	40mL Vial+HCl	3

SA6468-7	014G06LF14	06-NOV-07 12:50	07-NOV-07			28-NOV-07	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	20-NOV-07	40mL Vial+HCl	3

SA6468-8	014G13LS10	06-NOV-07 09:45	07-NOV-07			28-NOV-07	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	20-NOV-07	40mL Vial+HCl	3

SA6468-9	014G14LS10	06-NOV-07 09:50	07-NOV-07			28-NOV-07	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	E353.2-NITRATE	08-NOV-07	125mL Plastic	1
Aqueous	S	E415.1-TOC	04-DEC-07	40 mL Vial+H2SO4	2
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	20-NOV-07	40mL Vial+HCl	3

000008

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Nov. 08, 2007

04:28 PM

Login Number: SA6468

Account: SPECTRA001 NoWeb

Spectra Tech, Inc.

Project: SPECTRANSA001

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Comments

Total Samples: 7 *Total Analyses:* 19

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).

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 Mid South
PO No:
Sample Date: 11/06/07
Received Date: 11/07/07
Extraction Date:
Analysis Date: 15-NOV-2007 13:28
Report Date: 11/29/2007
Matrix: WATER
% Solids: NA

Lab ID: SA6468-1RA
Client ID: 014T110607
SDG: NSA-027
Extracted by:
Extraction Method: SW846 5030
Analyst: DMF
Analysis Method: SW846 8260B
Lab Prep Batch: WG45773
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.4
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.4
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.5
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.4
67-64-1	Acetone	U	5	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.4
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.3
67-66-3	Chloroform	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.4
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	1	1.0	1	1	0.4
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.5
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.5
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.4
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
591-78-6	2-Hexanone	U	5	1.0	5	5	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		91%				
17060-07-0	1,2-Dichloroethane-D4		85%				
2037-26-5	Toluene-D8		97%				
460-00-4	P-Bromofluorobenzene		97%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014T110607

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID SOUTH

SDG No.: NSA-027

Matrix: (soil/water) WATER

Lab Sample ID: SA6468-1RA

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

Lab File ID: Z5726

Level: (low/med) LOW

Date Received: 11/07/07

% Moisture: not dec. _____

Date Analyzed: 11/15/07

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 Mid South
PO No:
Sample Date: 11/06/07
Received Date: 11/07/07
Extraction Date:
Analysis Date: 14-NOV-2007 01:47
Report Date: 11/29/2007
Matrix: WATER
% Solids: NA

Lab ID: SA6468-4
Client ID: 014G07LF14
SDG: NSA-027
Extracted by:
Extraction Method: SW846 5030
Analyst: DMF
Analysis Method: SW846 8260B
Lab Prep Batch: WG45690
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		113%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		97%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G07LF14

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID SOUTH

SDG No.: NSA-027

Matrix: (soil/water) WATER

Lab Sample ID: SA6468-4

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

Lab File ID: S7886

Level: (low/med) LOW

Date Received: 11/07/07

% Moisture: not dec. _____

Date Analyzed: 11/14/07

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 Mid South
PO No:
Sample Date: 11/06/07
Received Date: 11/07/07
Extraction Date:
Analysis Date: 14-NOV-2007 02:18
Report Date: 11/29/2007
Matrix: WATER
% Solids: NA

Lab ID: SA6468-5
Client ID: 014G02LS20
SDG: NSA-027
Extracted by:
Extraction Method: SW846 5030
Analyst: DMF
Analysis Method: SW846 8260B
Lab Prep Batch: WG45690
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		8	1.0	5	5	3
156-60-5	trans-1,2-Dichloroethene		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		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	J	0.4	1.0	1	1	0.3
79-01-6	Trichloroethene		13	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		3	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		94%				
17060-07-0	1,2-Dichloroethane-D4		109%				
2037-26-5	Toluene-D8		90%				
460-00-4	P-Bromofluorobenzene		93%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G02LS20

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID SOUTH

SDG No.: NSA-027

Matrix: (soil/water) WATER

Lab Sample ID: SA6468-5

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

Lab File ID: S7887

Level: (low/med) LOW

Date Received: 11/07/07

% Moisture: not dec. _____

Date Analyzed: 11/14/07

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 Mid South
PO No:
Sample Date: 11/05/07
Received Date: 11/07/07
Extraction Date:
Analysis Date: 14-NOV-2007 02:49
Report Date: 11/29/2007
Matrix: WATER
% Solids: NA

Lab ID: SA6468-6
Client ID: 014G12LS10
SDG: NSA-027
Extracted by:
Extraction Method: SW846 5030
Analyst: DMF
Analysis Method: SW846 8260B
Lab Prep Batch: WG45690
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		2	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		17	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		4	1.0	1	1	0.3
79-01-6	Trichloroethene	J	0.9	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		94%				
17060-07-0	1,2-Dichloroethane-D4		111%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		97%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G12LS10

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA MID SOUTH SDG No.: NSA-027

Matrix: (soil/water) WATER Lab Sample ID: SA6468-6

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: S7888

Level: (low/med) LOW Date Received: 11/07/07

% Moisture: not dec. _____ Date Analyzed: 11/14/07

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 Mid South
PO No:
Sample Date: 11/06/07
Received Date: 11/07/07
Extraction Date:
Analysis Date: 14-NOV-2007 03:20
Report Date: 11/29/2007
Matrix: WATER
% Solids: NA

Lab ID: SA6468-7
Client ID: 014G06LF14
SDG: NSA-027
Extracted by:
Extraction Method: SW846 5030
Analyst: DMF
Analysis Method: SW846 8260B
Lab Prep Batch: WG45690
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		94%				
17060-07-0	1,2-Dichloroethane-D4		107%				
2037-26-5	Toluene-D8		91%				
460-00-4	P-Bromofluorobenzene		95%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G06LF14

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID SOUTH

SDG No.: NSA-027

Matrix: (soil/water) WATER

Lab Sample ID: SA6468-7

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

Lab File ID: S7889

Level: (low/med) LOW

Date Received: 11/07/07

% Moisture: not dec. _____

Date Analyzed: 11/14/07

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 Mid South
PO No:
Sample Date: 11/06/07
Received Date: 11/07/07
Extraction Date:
Analysis Date: 14-NOV-2007 03:52
Report Date: 11/29/2007
Matrix: WATER
% Solids: NA

Lab ID: SA6468-8
Client ID: 014G13LS10
SDG: NSA-027
Extracted by:
Extraction Method: SW846 5030
Analyst: DMF
Analysis Method: SW846 8260B
Lab Prep Batch: WG45690
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		4	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		35	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		26	1.0	1	1	0.3
79-01-6	Trichloroethene		4	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		2	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		94%				
17060-07-0	1,2-Dichloroethane-D4		111%				
2037-26-5	Toluene-D8		91%				
460-00-4	P-Bromofluorobenzene		95%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G13LS10

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NSA MID SOUTH SDG No.: NSA-027

Matrix: (soil/water) WATER Lab Sample ID: SA6468-8

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: S7890

Level: (low/med) LOW Date Received: 11/07/07

% Moisture: not dec. _____ Date Analyzed: 11/14/07

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 Mid South
PO No:
Sample Date: 11/06/07
Received Date: 11/07/07
Extraction Date:
Analysis Date: 14-NOV-2007 04:24
Report Date: 11/29/2007
Matrix: WATER
% Solids: NA

Lab ID: SA6468-9
Client ID: 014G14LS10
SDG: NSA-027
Extracted by:
Extraction Method: SW846 5030
Analyst: DMF
Analysis Method: SW846 8260B
Lab Prep Batch: WG45690
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		12	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		100	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		12	1.0	1	1	0.3
79-01-6	Trichloroethene		100	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		20	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		94%				
17060-07-0	1,2-Dichloroethane-D4		114%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		97%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G14LS10

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA MID SOUTH

SDG No.: NSA-027

Matrix: (soil/water) WATER

Lab Sample ID: SA6468-9

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

Lab File ID: S7891

Level: (low/med) LOW

Date Received: 11/07/07

% Moisture: not dec. _____

Date Analyzed: 11/14/07

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

Cert No E87604

Report of Analytical Results

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

Lab Sample ID: SA6468-5
Report Date: 28-NOV-07
Client PO:
Project: NSA Mid South
SDG: NSA-027

Sample Description	Matrix	Date Sampled	Date Received
014G02LS20	AQ	06-NOV-07	07-NOV-07

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	WG45427	07-NOV-07 14:51:31	N/A	N/A	KR	
Total Organic Carbon	5.7 mg/L	1	EPA 415.1	WG45645	12-NOV-07 13:59:45	N/A	N/A	AMB	

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: SA6468-9
Report Date: 28-NOV-07
Client PO:
Project: NSA Mid South
SDG: NSA-027

Sample Description	Matrix	Date Sampled	Date Received
014G14LS10	AQ	06-NOV-07	07-NOV-07

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Nitrate As N	U0.015 mg/L	.05	EPA 353.2	WG45427	07-NOV-07 14:52:37	N/A	N/A	KR	
Total Organic Carbon	U1.0 mg/L	1	EPA 415.1	WG45645	12-NOV-07 14:13:16	N/A	N/A	AMB	

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 20
Lab Proj #: P0711185
Report Date: 11/23/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Laboratory Results

Total pages in data package: 175

Lab Sample #	Client Sample ID
P0711185-01	039G03LF10
P0711185-02	014G14LS10
P0711185-03	039G13LF17
P0711185-04	039G10LF17
P0711185-05	014G02LS20
P0711185-06	039G12LF17
P0711185-07	039G02LF10
P0711185-08	039G04LF17
P0711185-09	002G25DA13
P0711185-10	002G28DA13
P0711185-11	002G24DA13
P0711185-12	002G02DA13
P0711185-13	002G03DA13
P0711185-14	039G22LF10

Microseeps test results meet all the requirements of the NELAC standards

Approved By: Rachel Tyger

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 20
Lab Proj #: P0711185
Report Date: 11/23/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G03LF10	Vapor	P0711185-01	07 Nov. 07 12:48	12 Nov. 07 14:02

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	11/18/07	mm
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	11/18/07	mm
N Hydrogen		5 300	0.600	nM	AM20GAX	11/18/07	mm
N Methane		4100.000	0.015	ug/L	AM20GAX	11/18/07	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 3 of 20
Lab Proj #: P0711185
Report Date: 11/23/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
014G14LS10	Vapor	P0711185-02	06 Nov. 07 9:50	12 Nov. 07 14:02

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.013	0.010	ug/L	AM20GAX	11/18/07	mm
N Ethene		0.017	0.010	ug/L	AM20GAX	11/18/07	mm
N Hydrogen		3.800	0.600	nM	AM20GAX	11/18/07	mm
N Methane		4.600	0.015	ug/L	AM20GAX	11/18/07	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 samples 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 20
Lab Proj #: P0711185
Report Date: 11/23/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G13LF17	Vapor	P0711185-03	06 Nov. 07 14:30	12 Nov. 07 14:02

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	11/18/07	mm
N Ethene	J	0.004	0.010	ug/L	AM20GAX	11/18/07	mm
N Hydrogen		3.400	0.600	nM	AM20GAX	11/18/07	mm
N Methane		0.180	0.015	ug/L	AM20GAX	11/18/07	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 samples 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 20
Lab Proj #: P0711185
Report Date: 11/23/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G10LF17	Vapor	P0711185-04	06 Nov. 07 14:30	12 Nov. 07 14:02

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.004	0.010	ug/L	AM20GAX	11/18/07	mm
N Ethene	J	0.009	0.010	ug/L	AM20GAX	11/18/07	mm
N Hydrogen		2.100	0.600	nM	AM20GAX	11/18/07	mm
N Methane		16.000	0.015	ug/L	AM20GAX	11/18/07	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 samples 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 20
Lab Proj #: P0711185
Report Date: 11/23/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
014G02LS20	Vapor	P0711185-05	06 Nov. 07 10:10	12 Nov. 07 14:02

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.003	0.020	ug/L	AM20GAX	11/18/07	mm
N Ethene	U	< 0 020	0.020	ug/L	AM20GAX	11/18/07	mm
N Hydrogen		2 400	1.200	nM	AM20GAX	11/18/07	mm
N Methane		0.032	0.030	ug/L	AM20GAX	11/18/07	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 samples 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 20
Lab Proj #: P0711185
Report Date: 11/23/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G12LF17	Vapor	P0711185-06	07 Nov. 07 10:15	12 Nov. 07 14:02

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.005	0.010	ug/L	AM20GAX	11/19/07	sl
N Ethene	J	0.004	0.010	ug/L	AM20GAX	11/19/07	sl
N Hydrogen		1.900	0.600	nM	AM20GAX	11/19/07	sl
N Methane		22.000	0.015	ug/L	AM20GAX	11/19/07	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 samples 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 20
Lab Proj #: P0711185
Report Date: 11/23/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G02LF10	Vapor	P0711185-07	07 Nov. 07 10:33	12 Nov. 07 14:02

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0 002	0.010	ug/L	AM20GAX	11/19/07	sl
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	11/19/07	sl
N Hydrogen		2.700	0.600	nM	AM20GAX	11/19/07	sl
N Methane		2400 000	0.015	ug/L	AM20GAX	11/19/07	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 samples 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 20
Lab Proj #: P0711185
Report Date: 11/23/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G04LF17	Vapor	P0711185-08	07 Nov. 07 14:00	12 Nov. 07 14:02

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	11/19/07	sl
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	11/19/07	sl
N Hydrogen		1.900	0.600	nM	AM20GAX	11/19/07	sl
N Methane		13000.000	0.015	ug/L	AM20GAX	11/19/07	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 sam[illegible]s 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 20
Lab Proj #: P0711185
Report Date: 11/23/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
002G25DA13	Vapor	P0711185-09	08 Nov. 07 12:15	12 Nov. 07 14:02

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.011	0.010	ug/L	AM20GAX	11/19/07	sl
N Ethene		0.031	0.010	ug/L	AM20GAX	11/19/07	sl
N Hydrogen		2.400	0.600	nM	AM20GAX	11/19/07	sl
N Methane		350 000	0.015	ug/L	AM20GAX	11/19/07	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 samples 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 20
Lab Proj #: P0711185
Report Date: 11/23/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
002G28DA13	Vapor	P0711185-10	08 Nov. 07 10:35	12 Nov. 07 14:02

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.016	0.010	ug/L	AM20GAX	11/19/07	sl
N Ethene		0.140	0.010	ug/L	AM20GAX	11/19/07	sl
N Hydrogen		1.700	0.600	nM	AM20GAX	11/19/07	sl
N Methane		240 000	0 015	ug/L	AM20GAX	11/19/07	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 sa[illegible]s received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 12 of 20
Lab Proj #: P0711185
Report Date: 11/23/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
002G24DA13	Vapor	P0711185-11	08 Nov 07 11:03	12 Nov. 07 14:02

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.017	0.010	ug/L	AM20GAX	11/19/07	sl
N Ethene		0.089	0.010	ug/L	AM20GAX	11/19/07	sl
N Hydrogen		1.900	0.600	nM	AM20GAX	11/19/07	sl
N Methane		110.000	0.015	ug/L	AM20GAX	11/19/07	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 samples received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 13 of 20
Lab Proj #: P0711185
Report Date: 11/23/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
002G02DA13	Vapor	P0711185-12	08 Nov. 07 14:31	12 Nov. 07 14:02

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.160	0.010	ug/L	AM20GAX	11/19/07	sl
N Ethene		0.210	0.010	ug/L	AM20GAX	11/19/07	sl
N Hydrogen		1.700	0.600	nM	AM20GAX	11/19/07	sl
N Methane		46.000	0.015	ug/L	AM20GAX	11/19/07	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 samples received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 14 of 20
Lab Proj #: P0711185
Report Date: 11/23/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
002G03DA13	Vapor	P0711185-13	08 Nov. 07	12 Nov. 07 14:02

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.510	0.010	ug/L	AM20GAX	11/19/07	sl
N Ethene		2.900	0.010	ug/L	AM20GAX	11/19/07	sl
N Hydrogen		4.600	0.600	nM	AM20GAX	11/19/07	sl
N Methane		2100.000	0.015	ug/L	AM20GAX	11/19/07	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 samples 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 20
Lab Proj #: P0711185
Report Date: 11/23/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G22LF10	Water	P0711185-14	07 Nov. 07	12 Nov. 07 14:02

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.025	0.025	ug/L	AM20GAX	11/21/07	rw
N Ethene		0.029	0.025	ug/L	AM20GAX	11/21/07	rw
N Methane		26000.000	0.100	ug/L	AM20GAX	11/21/07	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 samples received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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

Page: Page 16 of 20
Lab Proj #: P0711185
Report Date: 11/23/07
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

M071118002-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

M071118002-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Ethane	13.000	ug/L	13.54	96.00	75 - 125
Ethene	33.000	ug/L	32.44	102.00	75 - 125
Methane	15.000	ug/L	15.41	97.00	75 - 125

M071118002-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Ethane	14.000	ug/L	13.54	103.00	75 - 125	7.41	0 - 20
Ethene	33.000	ug/L	32.44	102.00	75 - 125	0.00	0 - 20
Methane	16.000	ug/L	15.41	104.00	75 - 125	6.45	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 samples 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 20
Lab Proj #: P0711185
Report Date: 11/23/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Prep Method: Hydrogen by Bubble Strip

Analysis Method: Hydrogen by Bubble Strip

M071118004-MB

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

M071118004-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hydrogen	50.000	nM	48.91	102.00	75 - 125

M071118004-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Hydrogen	50.000	nM	48.91	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 sa 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 20
Lab Proj #: P0711185
Report Date: 11/23/07
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

M071119024-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

M071119024-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	16.000	ug/L	15.41	104.00	75 - 125

M071119024-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	33.000	ug/L	32.44	102.00	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 samples 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 #: P0711185
Report Date: 11/23/07
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Prep Method: Hydrogen by Bubble Strip

Analysis Method: Hydrogen by Bubble Strip

M071119025-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Hydrogen	< 0 600	nM		0.600		- NA

M071119025-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hydrogen	50.000	nM	48.91	102 00	75 - 125

M071119025-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Hydrogen	50.000	nM	48.91	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 samples 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 20
Lab Proj #: P0711185
Report Date: 11/23/07
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

M071121001-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

M071121001-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Ethane	46.000	ug/L	41.68	110.00	75 - 125
Ethene	42.000	ug/L	38.89	108.00	75 - 125
Methane	900.000	ug/L	822.80	109.00	75 - 125

M071121001-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Ethane	45.000	ug/L	41.68	108.00	75 - 125	2.20	0 - 20
Ethene	42.000	ug/L	38.89	108.00	75 - 125	0 00	0 - 20
Methane	910.000	ug/L	822.80	111.00	75 - 125	1.10	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 samples received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Chain of Custody Documents

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

711185

CHAIN-OF-CUSTODY RECORD

Page ____ of ____

REPORT TO		INVOICE TO		
COMPANY	PHONE	COMPANY Microseeps Inc.	PHONE 412-826-5245	LAB PROJECT #:
NAME Paul Gentry	FAX	NAME	FAX	
ADDRESS 132 Jefferson Ct		ADDRESS 220 William Pitt way		TURNAROUND TIME:
CITY/ST/ZIP OAK RIDGE TN 37830		CITY/ST/ZIP Pittsburgh, PA 15238		

CLIENT PROJECT NAME: | CLIENT PROJECT #: | CLIENT P.O.#:

REQUESTED ANALYSES: (Air Sample) Hydrogen, Methane, Ethane, Ethene

	SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS		COMMENTS
1	039G03LF10	11/07/07 12:48			1		1		2	1X	only analysis [illegible]
2	014G14LS10	11/06/07 09:50			1		1		2	1	only analysis [illegible]
3	039G13LF17	11/06/07 14:30			1		1		2	1	only analysis [illegible]
4	039G10LF17	11/06/07 14:30			1		1		2	1	only analysis [illegible]
5	014G02LS20	11/06/07 10:10			1		1		2	1	only analysis [illegible]
6	039G12LF17	11/07/07 10:15			1		1		2	1	only analysis [illegible]
7	039G02LF10	11/07/07 10:33			1		1		2	1	only analysis [illegible]
8	039G04LF17	11/07/07 14:00			1		1		2	1	only analysis [illegible]
9	002G25DA13	11/08/07 12:15			1		1		2	1	only analysis [illegible]
10	002G28DA13	11/08/07 10:35			1		1		2	1	only analysis [illegible]
11	002G24DA13	11/08/07 11:03			1		1		2	1	only analysis [illegible]
12	002G02DA13	11/08/07 14:31			1		1		2	1	only analysis [illegible]

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
		/		/
		/		/ 1000
		/		/

ADDITIONAL REMARKS:

COOLER TEMP:

PO711185

22

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

Microseeps Project Number: P0711185

P0711185

Date: 11/9/07 Time of Receipt: 1105 Receiver:

Client: Spectra Tech

REASON FOR NON-CONFORMANCE:

Sample 002G03DA13 not on COC
Sample 039G22EF10 not on COC only received H_2O vials

pgentry@spectratechinc.com

ACTION TAKEN:

Client name: Paul Gentry Date: 11/9 Time: 11:21

add samples to COC. Emailed COC to Paul for signature

cell 865-748-7700 - NAS Mid South

Customer Service Initials: DH Date: 11/9

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 #: P0802146
Report Date: 02/18/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Laboratory Results

Total pages in data package: 92

Lab Sample #	Client Sample ID
P0802146-01	014G14LS11
P0802146-02	014GO2LS21
P0802146-03	039G02LF11
P0802146-04	039G03LF11
P0802146-05	039G04LF18
P0802146-06	039G10LF18
P0802146-07	039G12LF18
P0802146-08	039G13LF18
P0802146-09	039G22LF11

Microseeps test results meet all the requirements of the NELAC standards

Approved By: Debbie Hallo ***Date:*** 2-19-08

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

Page: Page 2 of 12
Lab Proj #: P0802146
Report Date: 02/18/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
014G14LS11	Vapor	P0802146-01	11 Feb. 08 12:15	14 Feb. 08 11:37

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.008	0.010	ug/L	AM20GAX	2/15/08	sl
N Ethene		0.014	0.010	ug/L	AM20GAX	2/15/08	sl
N Hydrogen		6.200	0.600	nM	AM20GAX	2/15/08	sl
N Methane		7.200	0.015	ug/L	AM20GAX	2/15/08	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 #: P0802146
Report Date: 02/18/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
014GO2LS21	Vapor	P0802146-02	11 Feb. 08 13:00	14 Feb. 08 11:37

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	2/15/08	sl
N Ethene		0.018	0.010	ug/L	AM20GAX	2/15/08	sl
N Hydrogen		2.200	0.600	nM	AM20GAX	2/15/08	sl
N Methane		35.000	0.015	ug/L	AM20GAX	2/15/08	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 #: P0802146
Report Date: 02/18/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G02LF11	Vapor	P0802146-03	13 Feb. 08 10:00	14 Feb 08 11:37

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	2/15/08	sl
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	2/15/08	sl
N Hydrogen		2.600	0.600	nM	AM20GAX	2/15/08	sl
N Methane		1500.000	0.015	ug/L	AM20GAX	2/15/08	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.#: P0802146
Report Date: 02/18/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G03LF11	Vapor	P0802146-04	13 Feb. 08 11:55	14 Feb. 08 11:37

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	2/15/08	sl
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	2/15/08	sl
N Hydrogen		2.300	0.600	nM	AM20GAX	2/15/08	sl
N Methane		5800.000	0.015	ug/L	AM20GAX	2/15/08	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 #: P0802146
Report Date: 02/18/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G04LF18	Vapor	P0802146-05	13 Feb. 08 13:15	14 Feb. 08 11:37

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	2/15/08	sl
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	2/15/08	sl
N Hydrogen		2.600	0.600	nM	AM20GAX	2/15/08	sl
N Methane		12000.000	0.015	ug/L	AM20GAX	2/15/08	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 #: P0802146
Report Date: 02/18/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G10LF18	Vapor	P0802146-06	12 Feb. 08 11:10	14 Feb. 08 11:37

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.005	0.010	ug/L	AM20GAX	2/15/08	sl
N Ethene		0.019	0.010	ug/L	AM20GAX	2/15/08	sl
N Hydrogen		3.300	0.600	nM	AM20GAX	2/15/08	sl
N Methane		37.000	0.015	ug/L	AM20GAX	2/15/08	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 #: P0802146
Report Date: 02/18/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G12LF18	Vapor	P0802146-07	13 Feb. 08 9:45	14 Feb. 08 11:37

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.004	0.010	ug/L	AM20GAX	2/15/08	sl
N Ethene	J	0.008	0.010	ug/L	AM20GAX	2/15/08	sl
N Hydrogen		2.500	0.600	nM	AM20GAX	2/15/08	sl
N Methane		43.000	0.015	ug/L	AM20GAX	2/15/08	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 #: P0802146
Report Date: 02/18/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G13LF18	Vapor	P0802146-08	12 Feb. 08 11:20	14 Feb. 08 11:37

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	J	0.002	0.010	ug/L	AM20GAX	2/15/08	sl
N Ethene		0.012	0.010	ug/L	AM20GAX	2/15/08	sl
N Hydrogen		2.700	0.600	nM	AM20GAX	2/15/08	sl
N Methane		0.250	0.015	ug/L	AM20GAX	2/15/08	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 #: P0802146
Report Date: 02/18/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
039G22LF11	Vapor	P0802146-09	13 Feb. 08 11:35	14 Feb. 08 11:37

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	2/15/08	sl
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	2/15/08	sl
N Hydrogen		2.900	0.600	nM	AM20GAX	2/15/08	sl
N Methane		14000.000	0.015	ug/L	AM20GAX	2/15/08	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 11 of 12
Lab Proj #: P0802146
Report Date: 02/18/08
Client Proj Name: NAS Mid South
Client Proj #: N62467-05-G

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

M080215006-MB

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

M080215006-LCS

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

M080215006-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

Page: Page 12 of 12
Lab Proj #: P0802146
Report Date: 02/18/08
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

M080215007-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

M080215007-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Ethane	13.000	ug/L	13.54	96.00	75 - 125
Ethene	32.000	ug/L	32.44	99.00	75 - 125
Methane	15.000	ug/L	15.41	97.00	75 - 125

M080215007-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Ethane	13.000	ug/L	13.54	96.00	75 - 125	0.00	0 - 20
Ethene	33.000	ug/L	32.44	102.00	75 - 125	3.08	0 - 20
[illegible]hane	16.000	ug/L	15.41	104.00	75 - 125	6.45	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. # Y8C-7-46

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 : SPECTRATECH INC

Co. Address : 132 Jefferson Ct

Phone # : 865-483-7210 Fax # :

Proj. Manager : Paul Gentry

Proj. Name/Number : NSA Midsouth

Sampler's signature :

Cooler Temp.

Results to :

Invoice to :

Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# Bottles	Dis. Hydro. (Air Vial)	methane ethane ethene (battery)										Remarks
014G14LS11		✓	✓		2-11-08	1215	2	1	1										
014G02LS21		✓	✓		2-11-08	1300	2	1	1										
039G02LF11		✓	✓		2-13-08	1000	2	1	1										
039G03LF11		✓	✓		2-13-08	1155	2	1	1										
039G04LF18		✓	✓		2-13-08	1315	2	1	1										
039G10LF18		✓	✓		2-12-08	1110	2	1	1										
039G12LF18		✓	✓		2-13-08	0945	2	1	1										
039G13LF18		✓	✓		2-12-08	1120	2	1	1										
039G22LF11		✓	✓		2-13-08	1135	2	1	1										

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	STI	2-13-08					
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

008 03146

SPECTRA TECH, INC.
NSA SOUTH-MILLINGTON
SDG: NSA-037
SB0724, SB0753

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

Katahdin ANALYTICAL SERVICES

nelac Cert. No. E87604

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SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
SPECTRA TECH, INC.
CASE NSA SOUTH-MILLINGTON
SDG: NSA-037
SB0724, SB0753

Sample Receipt

The following samples were received on February 12 and 13, 2008 and were logged in under Katahdin Analytical Services work order numbers SB0724 and SB0753 for a hardcopy due date of March 3, 2008.

KATAHDIN Sample No.	SPECTRA TECH Sample Identification
SB0724-1	014G14LS11
SB0724-2	014G06LF15
SB0724-3	014G07LF15
SB0724-4	014G12LS11
SB0724-5	014G02LS21
SB0724-6	014T021108
SB0753-1	014G13LS11

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-037 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 SB0724-5 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.

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.

Sample SB0724-4 was manually integrated for the target analyte 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.

Wet Chemistry Analysis

The samples of SDG NSA-037 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.

Katahdin
ANALYTICAL SERVICES

nelac
Cert. No. E87604

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
2.26.08

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.

Katahdin Analytical Services, Inc. — Sample Receipt Condition Report

Client: Spectra Tech	KAS PM: ADC	Sampled By: Client
Project:	KIMS Entry By: DS	Delivered By: Fedex
KAS Work Order#: SBG724	KIMS Review By: NVC	Received By: DS
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 2-12-08 1000

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				
4. Chain of Custody matches samples?	X				
5. Temperature Blanks present?		X			Temp (°C):
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) 0.8
7. Volatiles free of headspace? **Aqueous:** No bubble larger than a pea	X				
Soil/Sediment: eceived in airtight container?				X	
Received in methanol?				X	
Methanol covering soil?				X	
8. Trip Blank present in cooler?	X				
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			X[2]	
Sulfide - >9				X	
Cyanide – pH >12				X	
12. Corrective Action Report Filed?				✓	

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

Sample 003T021109 was labeled by Client as 014T021108
Sampled at 1545. Label per bottle ID per Paul Gentry 2/12/08

00000006

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

Client: Spectra Tech	KAS PM: Ask	Sampled By: Client
Project:	KIMS Entry By: DS	Delivered By: FEDEX
KAS Work Order#: SB0753 SB0754	KIMS Review By: [illegible]	Received By: DS
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 21305 1345

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				
4. Chain of Custody matches samples?	X				
5. Temperature Blanks present?	X				Temp (°C): 0.9
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? **Aqueous:** No bubble larger than a pea	X				
Soil/Sediment: Received in airtight container?				X	
Received in methanol?				X	
Methanol covering soil?				X	
8. Trip Blank present in cooler?	X				
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?				✓	

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

received one broken vial for sample 039 F021208.

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

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 #: SB0724
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 VOC	Filt. ☐Y ☐N TOC	Filt. ☐Y ☐N NITRATE	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	014G14LS11	2/11/08 / 1215	GW	6	3	2	1							
	014G06LF15	2/11/08 / 1430	GW	3	3									
	014G07LF15	2/11/08 / 1510	GW	3	3									
	014G12LS11	2/11/08 / 1130	GW	3	3									
	014G02LS21	2/11/08 / 1300	GW	12	9	2	1							
	008T02110S	2/11/08 / 1500	W	2	2									
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												

OMMENTS

Travis Watson 2/11/08

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[illegible]	2/11/08 1500	[illegible] 2-12-08 1000			
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 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 Inc
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):
Copies To:

LAB USE ONLY
WORK ORDER #: 580753 580754
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 VOC	Filt. ☐Y ☐N TOC	Filt. ☐Y ☐N NITRATES	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
0146-13L511	2/12/08 / 0930	GW	3	3	2	1							
039T021208	2/12/08 / 1235	W	2	2									
0396-10LF18	2/12/08 / 1110	GW	6	3	2	1							
039F021208	2/12/08 / 0852	W	3	3									
0396-13LF18	2/12/08 / 1120	GW	6	3	2	1							
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	/												
	/												
	/												
	/												
	/												
	/												

COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	2/12/08 1345	[signature] 2:32 1345			
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

ORIGINAL

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Feb. 12, 2008
01:00 PM

Login Number: SB0724

Account: SPECTRA001
Spectra Tech, Inc.

Project: SPECTRANSA001

NoWeb

Login Information

ANALYSIS INSTRUCTIONS	:	
CHECK NO.	:	
CLIENT PO#	:	N62467-05-G
COOLER TEMPERATURE	:	0.8
DELIVERY SERVICES	:	FEDEX
EDD FORMAT	:	KAS105QC-CSV
MAIL DATE	:	
PM	:	AJC
PROJECT NAME	:	NSA South-Millington
QC LEVEL	:	IV
REGULATORY LIST	:	NFESC
REPORT INSTRUCTIONS	:	Rpt to MDL. Send copy of rpt & EDD on CD.
SDG ID	:	NSA-037
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	Comments
SB0724-1	014G14LS11	11-FEB-08 12:15	12-FEB-08			01-MAR-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	E353.2-NITRATE	13-FEB-08	125mL Plastic	1
Aqueous	S	E415.1-TOC	10-MAR-08	40 mL Vial+H2SO4	2
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	25-FEB-08	40mL Vial+HCl	3

SB0724-2	014G06LF15	11-FEB-08 14:30	12-FEB-08		01-MAR-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	25-FEB-08	40mL Vial+HCl	3

SB0724-3	014G07LF15	11-FEB-08 15:10	12-FEB-08		01-MAR-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	25-FEB-08	40mL Vial+HCl	3

SB0724-4	014G12LS11	11-FEB-08 11:30	12-FEB-08		01-MAR-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	25-FEB-08	40mL Vial+HCl	3

SB0724-5	014G02LS21	11-FEB-08 13:00	12-FEB-08		01-MAR-08	MS/MSD for VOAs only.

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	E353.2-NITRATE	13-FEB-08	125mL Plastic	1
Aqueous	S	E415.1-TOC	10-MAR-08	40 mL Vial+H2SO4	2
Aqueous	S	MS/MSD-VOA			
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	25-FEB-08	40mL Vial+HCl	9

SB0724-6	014T021108	11-FEB-08 15:00	12-FEB-08		01-MAR-08	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	25-FEB-08	40mL Vial+HCl	2

Samples: *6* ***Total Analyses:*** *17*

0000010

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Feb. 13, 2008
04:30 PM

in Number: SB0753

Account: SPECTRA001
Spectra Tech, Inc.

Project: SPECTRANSA001

NoWeb

Login Information

ANALYSIS INSTRUCTIONS	:	
CHECK NO.	:	
CLIENT PO#	:	N62467-05-G
COOLER TEMPERATURE	:	0.9
DELIVERY SERVICES	:	FEDEX
EDD FORMAT	:	KAS105QC-CSV
MAIL DATE	:	
PM	:	AJC
PROJECT NAME	:	NSA South-Millington
QC LEVEL	:	IV
REGULATORY LIST	:	NFESC
REPORT INSTRUCTIONS	:	Rpt to MDL. Send copy of rpt & EDD on CD.
SDG ID	:	NSA-037
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	Comments
SB0753-1	014G13LS11	12-FEB-08 09:30	13-FEB-08			03-MAR-08	

		Product	Hold Date (shortest)	Bottle Type	Bottle Count
[illegible]	S	SW8260-LIB-SEARCH			
Aqueous	S	SW8260-S	26-FEB-08	40mL Vial+HCl	3

Total Samples: *1* ***Total Analyses:*** *2*

0000011

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: 02/11/08
Received Date: 02/12/08
Extraction Date:
Analysis Date: 22-FEB-2008 17:39
Report Date: 02/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB0724-1
Client ID: 014G14LS11
SDG: NSA-037
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG48637
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		11	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		85	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		7	1.0	1	1	0.3
79-01-6	Trichloroethene		87	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		14	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		114%				
17060-07-0	1,2-Dichloroethane-D4		118%				
2037-26-5	Toluene-D8		98%				
460-00-4	P-Bromofluorobenzene		98%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G14LS11

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH-MILLINGTON

SDG No.: NSA-037

Matrix: (soil/water) WATER

Lab Sample ID: SB0724-1

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

Lab File ID: F9347

Level: (low/med) LOW

Date Received: 02/12/08

% Moisture: not dec. _____

Date Analyzed: 02/22/08

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

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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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: 02/11/08
Received Date: 02/12/08
Extraction Date:
Analysis Date: 22-FEB-2008 18:10
Report Date: 02/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB0724-2
Client ID: 014G06LF15
SDG: NSA-037
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG48637
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		110%				
17060-07-0	1,2-Dichloroethane-D4		116%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		97%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G06LF15

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH-MILLINGTON

SDG No.: NSA-037

Matrix: (soil/water) WATER

Lab Sample ID: SB0724-2

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

Lab File ID: F9348

Level: (low/med) LOW

Date Received: 02/12/08

% Moisture: not dec. _____

Date Analyzed: 02/22/08

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

Dilution Factor: 1.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

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

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South-Millington
PO No:
Sample Date: 02/11/08
Received Date: 02/12/08
Extraction Date:
Analysis Date: 22-FEB-2008 18:41
Report Date: 02/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB0724-3
Client ID: 014G07LF15
SDG: NSA-037
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG48637
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		107%				
17060-07-0	1,2-Dichloroethane-D4		118%				
2037-26-5	Toluene-D8		106%				
460-00-4	P-Bromofluorobenzene		104%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G07LF15

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH-MILLINGTON

SDG No.: NSA-037

Matrix: (soil/water) WATER

Lab Sample ID: SB0724-3

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

Lab File ID: F9349

Level: (low/med) LOW

Date Received: 02/12/08

% Moisture: not dec. _____

Date Analyzed: 02/22/08

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

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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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: 02/11/08
Received Date: 02/12/08
Extraction Date:
Analysis Date: 22-FEB-2008 19:12
Report Date: 02/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB0724-4
Client ID: 014G12LS11
SDG: NSA-037
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG48637
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		2	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		16	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		3	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		111%				
17060-07-0	1,2-Dichloroethane-D4		118%				
2037-26-5	Toluene-D8		102%				
460-00-4	P-Bromofluorobenzene		101%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G12LS11

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH-MILLINGTON

SDG No.: NSA-037

Matrix: (soil/water) WATER

Lab Sample ID: SB0724-4

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

Lab File ID: F9350

Level: (low/med) LOW

Date Received: 02/12/08

% Moisture: not dec. _____

Date Analyzed: 02/22/08

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

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

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

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South-Millington
PO No:
Sample Date: 02/11/08
Received Date: 02/12/08
Extraction Date:
Analysis Date: 22-FEB-2008 17:33
Report Date: 02/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB0724-5
Client ID: 014G02LS21
SDG: NSA-037
Extracted by:
Extraction Method: SW846 5030
Analyst: RLS
Analysis Method: SW846 8260B
Lab Prep Batch: WG48656
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		6	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		38	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		12	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		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		84%				
17060-07-0	1,2-Dichloroethane-D4		83%				
2037-26-5	Toluene-D8		85%				
460-00-4	P-Bromofluorobenzene		84%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G02LS21

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH-MILLINGTON

SDG No.: NSA-037

Matrix: (soil/water) WATER

Lab Sample ID: SB0724-5

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

Lab File ID: S9443

Level: (low/med) LOW

Date Received: 02/12/08

% Moisture: not dec. _____

Date Analyzed: 02/22/08

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

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

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

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South-Millington
PO No:
Sample Date: 02/11/08
Received Date: 02/12/08
Extraction Date:
Analysis Date: 22-FEB-2008 11:01
Report Date: 02/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB0724-6
Client ID: 014T021108
SDG: NSA-037
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG48637
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	JB	1	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		109%				
17060-07-0	1,2-Dichloroethane-D4		110%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		97%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014T021108

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH-MILLINGTON

SDG No.: NSA-037

Matrix: (soil/water) WATER

Lab Sample ID: SB0724-6

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

Lab File ID: F9334

Level: (low/med) LOW

Date Received: 02/12/08

% Moisture: not dec. _____

Date Analyzed: 02/22/08

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

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

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

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Spectra Tech, Inc.
Project: NSA South-Millington
PO No:
Sample Date: 02/12/08
Received Date: 02/13/08
Extraction Date:
Analysis Date: 22-FEB-2008 19:43
Report Date: 02/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB0753-1
Client ID: 014G13LS11
SDG: NSA-037
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG48637
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		4	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		36	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		25	1.0	1	1	0.3
79-01-6	Trichloroethene		3	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		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		109%				
17060-07-0	1,2-Dichloroethane-D4		118%				
2037-26-5	Toluene-D8		108%				
460-00-4	P-Bromofluorobenzene		108%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

014G13LS11

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NSA SOUTH-MILLINGTON

SDG No.: NSA-037

Matrix: (soil/water) WATER

Lab Sample ID: SB0753-1

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

Lab File ID: F9351

Level: (low/med) LOW

Date Received: 02/13/08

% Moisture: not dec. _____

Date Analyzed: 02/22/08

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

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

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

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

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

Lab Sample ID: SB0724-1
Report Date: 25-FEB-08
Client PO: N62467-05-G
Project: NSA South-Millington
SDG: NSA-037

Sample Description	Matrix	Date Sampled	Date Received
014G14LS11	AQ	11-FEB-08	12-FEB-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	WG48324	13-FEB-08 08:47:28	N/A	N/A	CP	
Total Organic Carbon	1.9 mg/L	1	EPA 415.1	WG48352	14-FEB-08 09:51:09	N/A	N/A	AMB	

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: SB0724-5
Report Date: 25-FEB-08
Client PO: N62467-05-G
Project: NSA South-Millington
SDG: NSA-037

Sample Description	Matrix	Date Sampled	Date Received
014G02LS21	AQ	11-FEB-08	12-FEB-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	WG48324	13-FEB-08 08:50:46	N/A	N/A	CP	
Total Organic Carbon	8.2 mg/L	1	EPA 415.1	WG48352	14-FEB-08 10:05:30	N/A	N/A	AMB	

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Appendix B
VOC and Geochemical Results

Table B-1
VOC Results During Interim Measures
SWMU 14 – NSA Mid-Southh

Monitoring Well	Constituent	Concentrations (µg/L)											
		Jan-05	Apr-05	Jul-05	Oct-05	Jun-06	Aug-06	Oct-06	Jan-07	May-07	Aug-07	Nov-07	Feb-08
014G01LS	PCE	1 U	1 U	1 U	1 U	0.6 U	0.6 U	1 U	1 U	1 U	NS	NS	NS
	TCE	1 U	1 U	1 U	1 U	0.4 U	0.4 U	1 U	1 U	1 U	NS	NS	NS
	cis-1,2-DCE	1 U	1 U	1 U	1 U	0.5 U	0.5 U	1 U	1 U	1 U	NS	NS	NS
	VC	2 U	2 U	2 U	2 U	0.6 U	0.6 U	2 U	2 U	2 U	NS	NS	NS
014G02LS	PCE	54	43	160	200	150	140	120	2	1 U	34	3	1
	TCE	39	49	120	210	110	130	140	5	0.6 J	77	13	12 J
	cis-1,2-DCE	2	7	13	28	10	18	32	60	170	200	140	38 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
014G03LS	PCE	1 U	1 U	0.5	1 U	0.6	0.6	1 U	1 U	1 U	NS	NS	NS
	TCE	1 U	1 U	1 U	1 U	0.8	0.4 U	1 U	1 U	1 U	NS	NS	NS
	cis-1,2-DCE	1 U	1 U	1 U	1 U	0.5 U	0.6 U	1 U	1 U	1 U	NS	NS	NS
	VC	2 U	2 U	2 U	2 U	0.6 U	0.6 U	2 U	2 U	2 U	NS	NS	NS
014G05LS	PCE	1 U	1 U	1 U	1 U	0.6 U	0.6 U	1 U	1 U	1 U	NS	NS	NS
	TCE	1 U	1 U	1 U	1 U	0.4 U	0.4 U	1 U	1 U	1 U	NS	NS	NS
	cis-1,2-DCE	1 U	0.4 J	1 U	1 U	0.6	0.5 U	1 U	1 U	1 U	NS	NS	NS
	VC	2 U	2 U	2 U	2 U	0.6 U	0.6 U	2 U	2 U	2 U	NS	NS	NS
014G10LS	PCE	1 U	1 U	1 U	1 U	0.6 U	0.6 U	1 U	1 U	1 U	NS	NS	NS
	TCE	1 U	0.4 J	1 U	0.5	0.8	0.4	1 U	1 U	0.4 J	NS	NS	NS
	cis-1,2-DCE	0.3 J	0.4 J	0.4 J	0.9	0.5 U	0.5 U	0.9	1 U	1 U	NS	NS	NS
	VC	2 U	2 U	2 U	2 U	0.6 U	0.6 U	2 U	2 U	2 U	NS	NS	NS
014G12LS	PCE	3	3	2	2	2	1	2	0.7	1 U	1 U	1 U	1 U
	TCE	4	5	8	4	5	3	4	2	1	1 UJ	0.9 J	2 J
	cis-1,2-DCE	26	26	25	22	18	16	37	10	13	14	17	16 J
	VC	2 U	2 U	2 U	2 U	0.6 U	0.6 U	2 U	2 U	2 U	2 U	2 U	2 U

Table B-1
VOC Results During Interim Measures
SWMU 14 – NSA Mid-Southh

Monitoring Well	Constituent	Concentrations (µg/L)											
		Jan-05	Apr-05	Jul-05	Oct-05	Jun-06	Aug-06	Oct-06	Jan-07	May-07	Aug-07	Nov-07	Feb-08
014G13LS	PCE	2	2	2	3	1	2	2	2	2	2	2	1
	TCE	4	5	8	5	3	4	4	4	4	4	4	3 J
	cis-1,2-DCE	50	52	48	45	42	44	37	35	32	45	35	36 J
	VC	2 U	2 U	2 U	2 U	0.6 U	0.6 U	2 U	2 U	2 U	2 U	2 U	2 U
014G14LS	PCE	29	31	26	26	22	18	21	17	16	18	20	14
	TCE	120	140	100	110	130	68	92	80	32	72	100	87 J
	cis-1,2-DCE	100	110	110	120	120	83	89	63	56	100	100	85 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

Notes:

µg/L	micrograms per liter
U	Not detected
J	Estimated
NS	Not sampled

Table B-2
Geochemical Results
SWMU 14 – NSA Mid-South

Parameter	Date	Monitoring Wells							
		014G01LS	014G02LS	014G03LS	014G05LS	014G10LS	014G12LS	014G13LS	014G14LS
Diss lved Oxygen (mg/L)	Jan-05	1.42	6.17	0.89	1.49	1	1.99	2.32	1.78
	Apr-05	0.2	1.56	2.18	0.78	1.85	0.46	3.35	0.72
	Jul-05	0.43	0.34	0.17	0.16	0.65	1.27	0.66	0.55
	Oct-05	0.73	1.50	2.09	1.90	0.40	0.47	2.05	1.10
	Jun-06	0.43	1.06	1.06	1.01	0.88	0.18	1.49	0.53
	Aug-06	0.56	5.24*	1.54	3.23	1.16	1.91	1.09	1.73
	Oct-06	0.83	0.81	2.48	1.64	0.63	1.78	3.82	1.59
	Feb-07	0.55	0.65	1.90	2.14	1.27	0.60	2.14	1.02
	May-07	0.64	0.34	1.94	1.00	1.31	0.32	6.70	1.99
	Aug-07	NS	0.79	NS	NS	NS	0.40	3.41	1.80
	Nov-07	NS	1.15	NS	NS	NS	1.40	3.71	2.50
	Feb-08	NS	1.24	NS	NS	NS	0.90	4.58	1.15
ORP (mV)	Apr-05	-2	146	142	68	137	-113	75	-68
	Jul-05	-14.2	43.4	-9.3	-194.8	91.8	-51.9	10.2	-35.2
	Oct-05	175.7	98.6	192.6	-62.9	-55.1	151.5	187.4	-80.6
	Jun-06	-118.6	89.4	-93.3	-20.2	-42.5	84.5	-71.8	-66
	Aug-06	191.7	-67.7	169	-61	-58.4	-59.8	108.9	198
	Oct-06	91.2	-133.7	138.4	79.4	86.2	-27.5	-39.65	84.6
	Feb-07	124.8	-100.5	169.3	59.7	70.6	-84.6	138.6	60.3
	May-07	59.0	-131	177	19	115	-169	205	99
	Aug-07	NS	-105	NS	NS	NS	-142	74	102
	Nov-07	NS	-104	NS	NS	NS	-255	0	-111
	Feb-08	NS	-118	NS	NS	NS	-236	47	170
Hydrogen (nM)	Jan-05	0.66	1.1	1.20	5.7	3.3	NS	NS	NS
	Apr-05	2.1	0.62	1.5	0.68	1.6	41	0.48	1.3
	Jul-05	58	91	1.9	4.7	69	1.8	1.9	2.1
	Oct-05	3.2	15	0.83	4.7	39	1.6	4.4	6.8
	Jun-06	1.3	2.8	1.2	1	1.3	350	1.2	3.9
	Aug-06	1.6	NS	NS	1.9	1.2	1.2	1.4	1.1
	Oct-06	0.88	NS	36	0.84	3.1	3.1	0.97	1.1
	Feb-07	0.73	1.1	1.2	5.7	0.65	0.9	1.8	1.4
	May-07	NS	1.4	NS	NS	NS	NS	NS	12
	Aug-07	NS	NS	NS	NS	NS	2.3	5.7	2.8
	Nov-07	NS	2.4	NS	NS	NS	NS	NS	3.8
	Feb-08	NS	2.2	NS	NS	NS	NS	NS	6.2
Methane (µg/L)	Jan-05	2.200	0.046	0.032	0.300	0.084	NS	NS	NS
	Apr-05	1.800	0.130	0.029	0.054	0.041	1.400	1.900	1.300
	Jul-05	0.580	0.500	0.030	0.072	0.370	0.740	1.300	0.590
	Oct-05	0.98	0.36	0.015	0.38	0.93	1.3	6.9	0.65
	Jun-06	0.14	15	0.09	0.77	0.11	32	17	1.2
	Aug-06	0.25	3.9	0.87	0.12	0.22	35	16	0.56
	Oct-06	1.6	11	0.031	1.1	0.76	14	60	0.05
	Feb-07	0.2	2000	0.033	0.02	0.04	71	12	0.084
	May-07	NS	840	NS	NS	NS	NS	NS	0.51
	Aug-07	NS	200	NS	NS	NS	130	18	0.62
	Nov-07	NS	0.032	NS	NS	NS	NS	NS	4.6
	Feb-08	NS	35	NS	NS	NS	NS	NS	7.2

Table B-2
Geochemical Results
SWMU 14 – NSA Mid-South

Parameter	Date	Monitoring Wells							
		014G01LS	014G02LS	014G03LS	014G05LS	014G10LS	014G12LS	014G13LS	014G14LS
Alkalinity (mg/L)	Jan-05	340	400	380	400	340	380	380	420
	Apr-05	380	440	400	320	360	380	400	520
	Jul-05	420	480	520	440	440	500	480	500
	Oct-05	400	480	460	420	260	420	280	420
	Jun-06	380	400	380	340	340	360	320	400
	Aug-06	360	400	380	320	320	400	340	400
	Oct-06	300	760	420	380	320	440	320	400
	Feb-07	340	740	280	380	340	540	360	440
	May-07	NS	800	NS	NS	NS	NS	NS	560
	Aug-07	NS	NS	NS	NS	NS	600	400	300
	Nov-07	NS	415	NS	NS	NS	NS	NS	320
	Feb-08	NS	560	NS	NS	NS	NS	NS	480
Chloride (mg/L)	Jan-05	10	10	10	5	10	10	10	10
	Apr-05	10	15	10	10	5	10	15	10
	Jul-05	10	10	10	10	5	10	10	10
	Oct-05	10	10	10	15	10	10	10	15
	Jun-06	10	10	5	5	5	10	10	10
	Aug-06	10	10	5	5	5	5	5	10
	Oct-06	10	10	5	10	10	10	10	10
	Feb-07	10	20	10	10	10	10	10	15
	May-07	NS	25	NS	NS	NS	NS	NS	10
	Aug-07	NS	NS	NS	NS	NS	10	10	10
	Nov-07	NS	40	NS	NS	NS	NS	NS	40
	Feb-08	NS	15	NS	NS	NS	NS	NS	10.0
Ferrous Iron (mg/L)	Jan-05	0.25	0	0.01	0.03	0	0.13	0.27	0.02
	Apr-05	0.15	0.16	0.07	0.11	0.07	0.24	0.14	0.23
	Jul-05	0.03	0.07	0.11	0.05	0.02	0.25	0.44	0.29
	Oct-05	0.4	0.01	0.00	0.01	0.04	0.01	0.06	0.08
	Jun-06	0.79	0.00	0.00	0.03	0.00	0.00	0.05	0.00
	Aug-06	0.00	0.03	0.09	0.03	0.03	0.03	0.06	0.09
	Oct-06	0.02	3.27	0.00	0.02	0.00	2.06	0.10	0.10
	Feb-07	0.00	3.29	0.00	0.00	0.01	1.51	0.02	0.00
	May-07	NS	2.09	NS	NS	NS	NS	NS	0.02
	Aug-07	NS	NS	NS	NS	NS	1.37	0	0.01
	Nov-07	NS	1.74	NS	NS	NS	NS	NS	0.01
	Feb-08	NS	0.19	NS	NS	NS	NS	NS	0.00
TOC (mg/L)	Jan-05	1 U	1.2	1 U	1.0	1.9	1.0	1.2	1 U
	Apr-05	1.1	1.4	.72 J	1.1	1.7	1.4	1.1	1
	Jul-05	0.89 J	1.1	0.65 J	0.99 J	1.9	1.3	0.88 J	0.86 J
	Oct-05	0.76 J	1	0.71 J	1.5	1.3	0.91 J	0.82 J	0.83 J
	Jun-06	0.1 U	0.1 U	0.1 U	0.1 U	0.062	0.1 U	0.1 U	0.1 U
	Aug-06	1.0	1.2	1.1	0.76 J	1.6	1.1	1.0	1.1
	Oct-06	1.0	560.0	1.2	1.0 U	1.5	3.9	1.6	1.0 U
	Feb-07	1.4	76.0	1.8	1.6	2.4	95.0	1.5	1.6
	May-07	NS	4.1	NS	NS	NS	NS	NS	1.2
	Aug-07	NS	4.6	NS	NS	NS	1.7	1.2	1.1
	Nov-07	NS	5.7	NS	NS	NS	NS	NS	1.0 U
	Feb-08	NS	8.2	NS	NS	NS	NS	NS	1.9

Notes:
* = Erroneous reading due to well going dry
NS = Not Sampled