NATURAL ATTENUATION MONITORING REPORT
JUNE 2010 SAMPLING
BUILDINGS 1231 & 1253
NYSDEC SITE #633046
VERONA RESEARCH FACILITY
TOWN OF VERONA, ONEIDA COUNTY, NEW YORK



PREPARED FOR:

AIR FORCE RESEARCH LABORATORY/ ROME RESEARCH SITE
ENVIRONMENTAL AND OCCUPATIONAL HEALTH OFFICE
150 ELECTRONIC PARKWAY
ROME, NEW YORK 14414-4516

August 2010

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Prepared For:

Air Force Research Laboratory/ Rome Research Site
Environmental and Occupational Health Office
150 Electronic Parkway
Rome, New York 14414-4516

Prepared By:

Lu Engineers
175 Sullys Trail, Suite 202
Pittsford, New York 14534

August 2010

Project No. 13147-03

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1.0 Introduction

The Air Force Research Laboratory/Rome Research Site, Environmental Health Office (AFRL/RRS/RIOC) is continuing a surface and groundwater monitoring program at Buildings 1231 and 1253 located at the former RRS Verona Research Facility (VRF). These buildings are collectively listed as Inactive Hazardous Waste Site (IHWS) #633046 by the New York State Department of Environmental Conservation (NYSDEC). This monitoring program was initiated in May of 2002 to track natural attenuation of chlorinated solvent contamination identified in groundwater at Buildings 1231 and 1253.

Executive Summary (VOCs)

Two Volatile Organic Compounds were detected at levels above the NYSDEC groundwater standards for the June 2010 sampling event. Tetrachloroethene (5.4 ug/l) was detected above the groundwater standard of 5 ug/l at MW-1231E. Chlorobenzene (8.7 ug/l) was detected above the NYSDEC groundwater standard of 5 ug/l. Analytical results show that all other VOCs at both buildings were below the groundwater standard or non-detect for the June 2010 monitoring event.

All VOC data collected as part of the VRF OM&M is tabulated in Attachment 5. This data was used to develop contour maps of total VOC concentrations for both Building 1231 and 1253 for June 2010. Total VOC concentration contour lines are also included from previous quarters December 2009 and March 2010. All maps are located in Attachment 6**.**

1.1 Site Description and Location

The VRF comprises a total of 513 acres and was commissioned by the United States government in the early 1950s for radar and electronics research. The site location and layout are indicated on the Site Location Map included as Attachment 1.

The facility originally consisted of 35 buildings and associated structures predominantly located adjacent to Germany Road, a north/south aligned road situated on the eastern portion of the property. Building 1231, Brandy Brook and Building 1253 are the focus of this monitoring program.

Site topography is generally flat with an average grade elevation of approximately 447 feet above mean sea level. The property is traversed by two water courses including a small creek at the north end of the site and Brandy Brook, which flows westward toward Oneida Lake through the southern portion of the site. Oneida Lake is located approximately 6 miles west of the VRF. Surface water drains from developed areas in the southern portion of the site into Brandy Brook via roadside ditches that are generally aligned in a north/south orientation.

Previous environmental investigations indicate that site soils consist of silt, fine-grained sand and clay. The groundwater surface is typically observed within 5 feet of the ground surface throughout the study areas. Aquifer testing completed in 2002 revealed a hydraulic conductivity of 1.45×10^{-3} feet per minute on the single well (MW-1231C) tested. This hydraulic

conductivity value is considered unusually high for fine-grained soils and may indicate significant heterogeneity within the saturated zone.

1.2 Background

Chlorinated volatile organic compounds (CVOCs) were first identified on the site during a preliminary site assessment conducted in 1997. The CVOCs identified included both cis and trans-1,2- dichloroethene (DCE), chlorobenzene (CB) and tetrachloroethene (PCE) in groundwater at Buildings 1231 and 1253. Based on these findings, a two-year monitoring program was implemented that included wells at both buildings and surface water sampling in Brandy Brook.

In January 2001, the NYSDEC designated the VRF site as a Class 4 IHWS, indicating that it is properly closed, but requires continuing management. In order to comply with NYSDEC requirements for on-going management, RRS implemented an Operations, Monitoring and Maintenance (OM&M) Plan for monitored natural attenuation of site contaminants. This plan included quarterly sampling for volatile organics and natural attenuation indicator parameters. This program was conducted from May 2002 through March 2004 and involved groundwater sampling at a total of 11 monitoring wells and three surface water sample locations at Brandy Brook. Budgetary and contractual issues resulted in the discontinuation of quarterly monitoring for an 18-month period. The quarterly sampling schedule was resumed in September 2006. Second quarter 2010 sampling for the site was completed on June 23 and 24, 2010.

2.0 Methodology and Procedures

In addition to the sampling and testing conducted for this project, Lu Engineers has developed a geographic information system (GIS) to assist in the process of tracking contaminant concentrations and other site information over time. Site data from past OM&M sampling and testing was input into an Access® database that is linked to an ArcView® v.9 interface developed specifically for this project. Geospatial site data was collected with a Trimble, Inc. Geo XT® global positioning system in September 2006. This data was then loaded into the GIS to facilitate linking of geospatial and other site data. This GIS allows easy access to information that has been, and will continue to be collected during the OM&M process. RRS/IFOCV is being provided with the base GIS and periodic updates as data continues to be collected.

In August 2007, a sodium permanganate injection was performed at four of the on-site wells. The wells treated include MW1231-C, MW1231-E, MW1231-F, and MW1253-H. This injection was completed in order to promote the oxidation of the remaining chlorinated solvents present in groundwater at the site.

On March 19, 2008, RegenOx ®, a sodium percarbonate complex used to oxidize contaminants, was injected into one of the on-site wells. The highest concentrations of dichlorobenzene (DCB) have been detected in MW-1231F. The injection was completed to aid the catalytic component, which generates a range of highly oxidizing free radicals that rapidly destroy a range of target contaminants in promoting the oxidation of contaminants.

This method was used as an alternative to sodium permanganate, which appeared to have no affect in the reduction of dichlorobenzene concentrations.

On June 20, 2008 a vacuum truck was used to place the four contaminated wells under vacuum. The vacuum hose from the truck was attached to the top of each well casing and the vacuum engaged for approximately 30 minutes at each well. A vacuum of between -22" and -26" was achieved and between 20 and 40 gallons of water were removed from each well location. A headspace reading was taken off the water in the vacuum truck prior to discharging; the reading was 0.0 ppm and the water was discharged on site.

2.1 Groundwater Sampling

The 11 VRF groundwater monitoring wells were sampled on June 23 and 24, 2010. A Sample Location Map is provided in Attachment 2 that includes Buildings 1231 and 1253.

Total well depth and depth to water measurements were obtained with a pre-cleaned Solinst® water level indicator. All well heads have been surveyed relative to a site datum (a painted bolt on top of the fire hydrants located at both buildings) to verify casing elevations.

A MiniRAE 2000® photoionization detector was used to detect volatile organic vapors that may have been present in the well head space. No detectable concentrations of organic vapor were observed.

Wells were purged and sampled by means of a Geopump® peristaltic pump connected to dedicated polyethylene and silicone tubing. Once a minimum of three well volumes was removed from each well, the flow rate was slowed to the lowest sustainable discharge rate for sampling.

Field parameters were obtained using a Horiba® U22 while purging and immediately prior to sampling. These and all available past field parameter (pre-sample) data are presented in Attachment 3. Field parameters include:

- groundwater elevations
- Eh
- salinity
- specific conductance
- pH
- turbidity
- dissolved oxygen (DO)
- temperature

Groundwater samples were collected and containerized as appropriate for the following parameters:

- Target Compound List (TCL) VOCs by EPA Method 624
- Total (unfiltered) iron and manganese by EPA Method 200.7
- Dissolved (filtered) iron and manganese by EPA Method 200.7
- Nitrate and sulfate by EPA Method 300.0
- Carbon dioxide by Standard Method 4500
- Total dissolved solids (TDS) and alkalinity by EPA Methods 160.1 and 310.1

- Ethene and ethane by GC analysis

All wells were closed and locked upon completion of sampling. Samples were immediately stored in clean coolers on ice for transport to the contract laboratory, Mitkem Laboratories.

2.2 Surface Water Sampling

The three locations where surface water sampling was conducted at Brandy Brook are indicated on the Sample Location Map provided as Attachment 2. Water samples were obtained by immersion of a Bel-Art® Long-Handled Dip Sampler, which was then used to fill all sample containers. Field parameters were also tested for the surface water sample locations during this round of sampling.

Surface water analytes included the following:

- Target Compound List (TCL) VOCs by EPA Method 624
- Total (unfiltered) iron and manganese by EPA Method 200.7
- Dissolved (filtered) iron and manganese by EPA Method 200.7
- Nitrate and sulfate by EPA Method 300.0
- Carbon dioxide by Standard Method 4500
- Total dissolved solids (TDS) and alkalinity by EPA Methods 160.1 and 310.1
- Ethene and ethane by GC analysis

Surface water samples were immediately packed in ice-filled coolers for transport to the contract laboratory with the groundwater samples.

3.0 Discussion of Results

The following sections discuss the findings of the June 2010 OM&M event with respect to historical site data.

3.1 Groundwater Elevations

Attachment 3 contains tabulated groundwater and well head elevations. Groundwater contour maps are provided in Attachment 4.

3.1.1 Building 1231

The apparent groundwater flow direction at Building 1231 is southeastward and is generally consistent with past groundwater elevation findings and past assumptions relating to overall site groundwater flow patterns. Groundwater elevations had an average decrease of 0.04 feet since March 2010.

3.1.2 Building 1253

The apparent groundwater flow direction at Building 1253 is southeastward and is generally consistent with past groundwater elevation findings and past assumptions relating to overall site

groundwater flow patterns. Groundwater elevations had an average decrease of 0.15 feet since March 2010.

3.2 Volatile Organics

3.2.1 Building 1231

June 2010 Monitoring

The following table identifies VOCs detected at Building 1231 for the June 2010 monitoring event, and the NYSDEC groundwater standard for each parameter detected.

Detected Volatile Organic Compounds (VOCs) [1]	NYSDEC Groundwater Standard [2]	MW-1231C	MW-1231E	MW-1231F	MW-1231H
cis-1,2-dichloroethene	5	0.75		0.63	0.78
tetrachloroethene	5	3.7	5.4	2.3	
trichloroethene	5	1.4		1.1	
1,3-dichlorobenzene	3			1.2	
1,4-dichlorobenzene	3			2.6	
chlorobenzene	5			8.7	
vinyl chloride	2				1.5

[1] Results presented in parts per billion (PPB)
[2] NYS Ambient groundwater standards (6 NYCRR Part 703.5)
Value detected above groundwater standards

MW-1231C
The June 2010 data indicate a decrease in the concentration of total volatile organics at MW-1231C. Trichloroethene (TCE) at MW-1231C was detected in this sampling event at a level of 1.4 ug/l.

The concentration of PCE at MW-1231C (3.7 ug/l) is below the NYSDEC groundwater standard of 5 ug/l. Cis-1,2-DCE was detected at MW-1231C at a level of 0.75 ug/l, below the NYSDEC groundwater standard of 5 ug/l.

All compounds with a history of being persistent at MW-1231C were either non-detect or below the NYSDEC groundwater standard for this sampling event.

MW-1231E
Total volatile organic concentrations increased slightly in June 2010 from the previous monitoring event at MW-1231E. Tetrachloroethene (5.4 ug/l) is above the groundwater standard of 5 ug/l.

The June 2010 results indicate non-detection for the compounds CB and 1,4-DCB at MW-1231E. Both compounds have been persistent at this location, and had been steadily decreasing in concentration since initial detection. It is noted that CB was the compound with the highest concentration (9000 ug/l) when monitoring began.

June 2010 sampling reveals persistent contaminant levels below the groundwater standard or non-detect, with one exception. Tetrachloroethene (5.4 ug/l) was detected at a level above the NYSDEC groundwater standard of 5 ug/l.

MW-1231F
Total volatile organic concentration at MW-1231F increased for the June 2010 Quarterly Sampling event. Concentration of CB (8.7 ug/l) is above the NYSDEC groundwater standard of 5 ug/l. It is noted that CB was the compound with the highest concentration (4600ug/l) at this monitoring well when monitoring began.

1,4-DCB was detected at MW-1231F at a concentration of 2.6 ug/l for the June 2010 sampling event. The organic compound 1,3-DCB (1.2 ug/l) was detected at MW-1231F below the NYSDEC groundwater standard of 3 ug/l.

The compound 1,2-DCB was not detected at MW-1231F during the current sampling event, and remains below the NYSDEC groundwater standard of 3 ug/l for the ninth consecutive sampling event. Tetrachloroethene (2.3 ug/l) was detected at MW-1231F below the groundwater standard of 5 ug/l.

MW1231-H
Cis-1,2-DCE was detected in the June 2010 sampling event at a level of 0.78 ug/l. Vinyl chloride (VC) was detected at MW-1231H at a level of 1.5 ug/l, below the groundwater standard of 2 ug/l.

MW1231-G and MW1231-I
The monitoring wells MW-1231G and MW-1231I were free of contaminants for the June 2010 sampling event.

Previous Monitoring Events

MW-1231C
Trichloroethene is repeatedly detected at this well location, but has been non-detect or below the NYSDEC groundwater standard of 5 ug/l since December 2006 (15 consecutive sampling events). Trichloroethene has been detected in 12 of 14 previous events at levels below the NYSDEC groundwater standard of 5 ug/l.

Tetrachloroethene was detected in March 2010 at a level of 3.8 ug/l. September 2009 PCE detection (5.8 ug/l)was above the NYSDEC groundwater standard of 5 ug/l, while the three prior sampling events revealed levels below the standard. Tetrachloroethene has been detected at this well at each of the sampling events, and had continually been above the NYSDEC groundwater standard until the December 2008 sampling event.

MW-1231E

Tetrachloroethene was detected at MW-1231E in the March 2010 sampling event at a level of 3.5 ug/l. The June 2009 event resulted in the detection of PCE at a level above the groundwater standard. Until June 2010, all sampling events prior to and after June 2009 indicated concentrations below the NYSDEC groundwater standard or non-detect for PCE at MW-1231E.

The compounds CB and 1,4-DCB were not detected at this well location in the previous seven sampling events. The levels from December 2007 through June 2008 sampling events fluctuate slightly above the NYSDEC Groundwater standards (3ug/l and 5ug/l, respectively). Beginning with the September 2008 sampling, neither compound has been detected through the current sampling event. This is the eighth time that both compounds have not been detected in consecutive sampling events.

The December 2008 and March 2009 sampling events indicated that all persistent contaminants at MW-1231E were either non-detect, or below the NYSDEC groundwater standard. September and December 2009, and March 2010 sampling reveals all persistent contaminant levels below the groundwater standard or non-detect.

MW-1231F

Chlorobenzene was detected at a concentration of 4.7 ug/l for the March 2010 sampling event, below the NYSDEC groundwater standard for this contaminant.

Detections below the NYSDEC groundwater standard (3.0 ug/l) for 1,4-DCB at this well location include the December 2008, March 2009, June 2009 and December 2009, and March 2010 sampling events. Concentrations observed during the 15 sampling events prior to December 2008 have all been above the NYSDEC groundwater standard for 1,4-DCB. The September 2009 concentration of 1,4-DCB (7.0 ug/l) exceeded the groundwater standard.

The organic compound 1,3-DCB was detected in the March 2010 sampling at a concentration of 0.69 ug/l. 1,3-DCB had been at or below the groundwater standard, or non-detect in the six sampling events prior to June 2010. Until December 2008, concentrations had been above the groundwater standard for 15 previous events.

Both 1,2-DCB and 1,3-DCB have been detected as persistent contaminants in the past at this well location, and have been occasionally detected in recent events at levels below the groundwater standard.

Tetrachloroethene has been equal to or below the NYSDEC groundwater standard for ten consecutive sampling events prior to June 2010 at this well location.

MW1231-H
The compound cis-1,2-DCE was detected at MW1231-H at a level of 1.2 ug/l during the December 2009 sampling event, which is below the groundwater standard of 5 ug/l. This compound has shown a tendency to be sporadically detected at other well locations throughout the sampling history at the site. The intermittent detection may be explained the fact that 1,2-DCE is a breakdown product of TCE. As TCE is moving through the subsurface, it is degrading and breakdown products may therefore appear in wells were it has previously not been detected. This process is explained further in the Summary section of this report (Page 12).

Vinyl chloride was detected in the March 2010 sampling event at a concentration of 1.3 ug/l at this well location. Vinyl chloride was detected in the five sampling events prior to June 2010, as well as two prior samplings, at levels below groundwater standards for this contaminant.

MW1231-G and MW1231-I
June 2010 marks the eleventh consecutive sampling event in which no volatile organic compounds were detected at MW-1231G, and the fifteenth consecutive sampling event in which no volatile organic compounds were detected at MW-1231I.

Additional Notes

In the March 2010 sampling event, chloromethane was detected at MW-1231E, MW-1231H, and MW-1231I at levels above the NYSDEC standard of 5 ug/l. Communication with Mitkem Laboratories, the contract laboratory for this project, indicated that the source of the chloromethane detections was likely the result of chloromethane contamination of the hydrochloric acid present in the Volatile Organic Analysis (VOA) vials used in the sampling process. Mitkem has since changed bottle suppliers in an effort to address this problem, and chloromethane was not detected at any well location for the June 2010 sampling event.

The Total VOC Concentration Contour Maps for Building 1231 (Attachment 6) do not illustrate a general decrease in the size of the affected area of the property that corresponds to the gradual decrease in total VOC concentrations as indicated in previous monitoring. Significant changes in the lateral distribution of chlorinated volatile organic contaminants are not indicated in this area of the Verona Research Site by the June 2010 sampling event.

3.2.2 Building 1253

The following table identifies VOCs detected at Building 1231 for the June 2010 monitoring event, and the NYSDEC groundwater standard for each parameter detected.

Detected Volatile Organic Compounds (VOCs) [1]	NYSDEC Groundwater Standard	MW-1253E	MW-1253H	MW-1253I
cis-1,2-dichloroethene	5	0.84		0.77
trichloroethene	5			1.4
vinyl chloride	2		1.8	
1,1-dichloroethane	5		0.67	

[1] Results presented in parts per billion (PPB)
[2] NYS Ambient groundwater standards (6 NYCRR Part 703.5)
Value detected above groundwater standards

June 2010 Monitoring

MW-1253H
Vinyl chloride was detected at MW-1253H at a level of 1.8 ug/l, which is below the NYSDEC groundwater standard of 2 ug/l. The compound 1,1-dichloroethane was also detected at MW-1253H at a level of 0.67 ug/l during this sampling event.

MW-1253I
Trichloroethene was detected during this sampling event at MW-1253I at a level of 1.4 ug/l, below the NYSDEC groundwater standard of 5 ug/l. Trans-1,2- DCE was not detected at MW-1253I during this sampling event.

Cis-1,2- DCE (0.77 ug/l) was detected at MW-1253I for this sampling event at a level below the NYSDEC groundwater standard of 5 ug/l.

MW-1253E
Vinyl chloride was not detected at MW-1253E for this sampling event. Cis-1,2 DCE (0.84 ug/l) was detected at MW-1253E for this sampling event, at a level below the NYSDEC groundwater standard of 5 ug/l for this substance. MW-1253E has had sporadic detection of VOCs, but no pattern of persistent contamination is evident at this location.

MW-1253F and MW-1253G
The monitoring wells MW-1253F and MW-1253G were free of contaminants for the June 2010 sampling event. This is a common occurrence at both wells.

Previous Monitoring Events

MW-1253H
Vinyl chloride has been a persistent contaminant at this location, but has been either non-detect or below the groundwater standard for six of the eight previous sampling events. Two recent sampling events (March 2009 and March 2010) detected VC above the groundwater standard at 4.9 ug/l, and 4.3 ug/l, respectively.

It is noted that VC is a breakdown product of TCE and its presence may be related to the decrease in TCE to levels below groundwater standards at Building 1253. TCE had been consistently above the standard in prior events.

1,1-dichloroethane has been occasionally detected in previous sampling events, and has been non-detect or below the NYSDEC groundwater standard of 5 ug/l for all previous sampling events.

MW-1253I
Trichloroethene was detected during the March 2010 sampling event. This contaminant has been persistent in prior events at the well location, but has been either non-detect or below the NYSDEC groundwater standard for the previous fourteen sampling events.

Trans-1,2-DCE has been either non-detect or below the NYSDEC groundwater standard for the previous twenty sampling events. Cis-1,2- DCE has been either non-detect or below the NYSDEC groundwater standard of 5 ug/l for the previous seventeen sampling events.

MW-1253E
Vinyl chloride was detected in September 2009 sampling at a concentration of 25 ug/l, which is above the NYSDEC groundwater standard of 2 ug/l. This is the highest VC concentration detected at this well. The compound has only been detected two other times in previous sampling: October 2007 (7.8 ug/l), and September 2008 (5.2 ug/l).

Cis-1,2 DCE was detected at a level of 10 ug/l in September 2009, above the NYSDEC groundwater standard of 5 ug/l. This was the highest concentration of this compound detected at this location, as the compound has been detected in only two other sampling events: October 2007 (3.1 ug/l), and September 2008 (3.0 ug/l)

Again, the sporadic detection of VC and cis-1,2 DCE may be explained through the breakdown process and migration of TCE in the subsurface affecting wells with no history of these compounds being detected. Refer to the summary section of this report for an explanation of this process (Page 12).

MW-1253F
Toluene was detected twice (September 2008, March 2009) during previous sampling events at MW-1253F, and has been detected sporadically at other wells at this location.

MW-1253G
No persistent contaminants have been identified at this well location.

Additional Notes

In the March 2010 sampling event, chloromethane was detected at MW-1253F (15 ug/l) and MW-1253H (13 ug/l). Communication with Mitkem Laboratories, the contract laboratory for this project, indicated that the source of the chloromethane detections was likely the result of chloromethane contamination of the hydrochloric acid present in the Volatile Organic Analysis (VOA) vials used in the sampling process. Mitkem has since changed bottle suppliers in an effort to address this problem, and chloromethane was not detected at any well location for the June 2010 sampling event.

The Total VOC Concentration Contour Maps for Building 1253 (Attachment 6) do not illustrate a general decrease in the size of the affected area of the property that corresponds to the gradual decrease in total VOC concentrations as indicated in previous monitoring. Significant changes in the lateral distribution of chlorinated volatile organic contaminants are not indicated in this area of the Verona Research Site by the June 2010 sampling event.

3.2.3 Brandy Brook
No detectable VOCs have been identified in any of the three surface water samples obtained from Brandy Brook for the June 2010 sampling event.

In the March 2010 sampling event, chloromethane was detected at SW-1 and SW-3 at levels above the NYSDEC standard of 5 ug/l. Communication with Mitkem Laboratories, the contract laboratory for this project, indicated that the source of the chloromethane detections was likely the result of chloromethane contamination of the hydrochloric acid present in the Volatile Organic Analysis (VOA) vials used in the sampling process. Mitkem has since changed bottle suppliers in an effort to address this problem, and chloromethane was not detected at any well location for the June 2010 sampling event.

3.3 Inorganics

Analytical results for inorganic samples are provided in Attachment 7.

3.3.1 Building 1231
Concentrations of total (unfiltered) iron in the June 2010 event range from 3.93 to 0.082 milligrams per liter (mg/l). Previous data indicates a consistent exceedance of the NYSDEC groundwater standard of 0.3 mg/l at wells MW-1231H and MW-1231I. Dissolved (filtered) iron was detected at levels ranging from 0.311 mg/l to 0.082 mg/l. Dissolved (filtered) manganese was detected in all of the sampled wells at Building 1231. Concentrations of dissolved (filtered) manganese have remained at pre-sodium permanganate injection (9/07) levels at each well, after

the October 2007 increase due to the injection of sodium permanganate at 3 of the 6 wells at Building 1231. This is discussed in section 4.1.

Nitrate was detected at three of the wells at Building 1231 for the current sampling event, with concentrations below 0.2 milligrams per liter (mg/l). These levels are well below the NYSDEC groundwater standard of 10 mg/l. After a spike in alkalinity and total dissolved solids in October 2007 concentrations have returned to pre-injection levels. Sulfate concentrations have stabilized to pre-injection levels, and are below the NYSDEC groundwater standards.

Dissolved oxygen was identified at detectable concentrations ranging from 9.69 to 16.21 parts per million (ppm), and is considered available for aerobic degradation of site contaminants. Carbon dioxide was detected in all of the wells at Building 1231 in a range of 40-230 mg/l, at levels similar to the March 2009 sampling. Carbon dioxide is a breakdown product of the TCE breakdown process. The carbon dioxide data suggests that aerobic degradation and dispersion remain the primary degradation mechanisms currently active with respect to Building 1231.

3.3.2 Building 1253

June 2010 concentrations of total (unfiltered) iron range from 1.06 to 0.082 mg/l. Most wells at this location consistently exceed the groundwater standard of 0.3 mg/l. Dissolved (filtered) iron was detected at levels ranging from 0.25 mg/l to 0.082 mg/l. Both total and dissolved manganese were detected in all of the sampled wells at Building 1253. Total manganese concentrations range from 2.96 mg/l (exceeding the NYSDEC standard of 0.3 mg/l) to 0.0566 mg/l.

Nitrates were identified at two monitoring wells at Building 1253, at concentrations below the groundwater standard of 10 mg/l. Alkalinity and total dissolved solids concentrations have returned to pre-injection levels. Sulfate was detected in all of the wells at Building 1253. This is consistent with previous sampling events.

Dissolved oxygen was identified at detectable concentrations ranging from 9.22 to 13.14 ppm and is considered available for aerobic degradation of site contaminants. Carbon dioxide was detected in all wells, with a concentration range of 220-370 mg/l.

3.4 Trends

Attachment 8 includes graphical representations of trend analyses relating to all site wells yielding elevated CVOC concentrations. Selected analytes represent the contaminants detected in each well with consistent enough historical information to allow statistical analysis. The trend analyses were prepared using a sixth order polynomial regression.

Although there was a seasonal upward trend indicated in the October 2007 sampling concentration of CB at MW-1231F, the graphs indicate a clear overall downward trend in site contaminant concentrations. The June 2010 sampling results also demonstrated a continued general downward trend in Site contaminants.

The charts provided in Attachment 8 indicate a complex and inconsistent relationship between observed ground water levels and contaminant concentrations in wells. This may indicate the possibility of preferentially stratified sorbed-phase contamination remaining in the subsurface.

Some seasonal fluctuations were observed in the Groundwater-VOC graphs provided in attachment 8. Higher groundwater elevations appear to correspond with lower total VOC concentrations at some of the wells. While the higher groundwater elevations tend to occur during the winter (during fourth quarter monitoring) at most site wells, VOC concentration seems to be highest during the fall (third quarter monitoring). Groundwater elevations are not consistently lowest during fall monitoring, but VOC concentrations are typically highest during this monitoring event. Future monitoring results will be examined to determine consistencies in these two parameters and possible explanations for annual peak VOC detections.

4.0 In-Situ Chemical Oxidation

On August 21, 2007, a 20% sodium permanganate solution was injected into affected locations to promote the oxidation of remaining chlorinated solvent concentrations at the subject site. Wells used for injection included the following:

- B-1231 wells – C, E & F
- B-1253 wells - H

Lu Engineers used the following procedure for the injection process. Wells to be injected were bailed to remove accessible water from each well. The approximate water volume was determined and well water not needed for dilution was discharged directly to the ground surface.

Personnel handling the sodium permanganate ($NaMnO_4$) solution donned protective equipment including Tyvek, a face shield and nitrile gloves and handled this material in accordance with all precautions indicated on the MSDS.

The 40% solution was cut by 50% using containerized well water. A total of approximately 4 gallons at 20% were discharged by gravity into each well location. To accomplish this, one person held a large funnel on the top of the well to be used, while the other person slowly poured the 20% $NaMnO_4$ solution into the well via the funnel. Once the desired amount had been discharged into a given well, the well head was closed and locked.

On March 19, 2008 a 2.5% sodium percarbonate complex (RegenOx®) was injected into MW-1231F to promote the oxidation of remaining chlorinated solvent concentrations at the subject site.

Lu Engineers used the following procedure for the injection process. The well to be injected was bailed to remove accessible water. The approximate water volume was determined and well water was discharged directly to the ground surface.

Personnel handling the sodium percarbonate ($2Na_2CO_3$- $3H_2O_2$) solution donned protective equipment including Tyvek, a face shield and nitrile gloves and handled this material in accordance with all precautions indicated on the MSDS.

A total of approximately 4 gallons at 2.5% solution were discharged by gravity into MW-1231F. To accomplish this, one person held a large funnel on the top of the well to be used, while the other person slowly poured the 20% sodium permanganate solution into the well via the funnel. Once the desired amount had been discharged into the well, the well head was closed and locked.

4.1 In-Situ Chemical Oxidation Effectiveness

As the sodium permanganate was only applied to 4 of the 11 wells on site, the results from these wells were considered to see if the solution was promoting the oxidation of chlorinated solvents as planned. Total and Dissolved manganese concentrations have generally returned to pre-sodium permanganate injection levels at injected and surrounding wells.

Contaminant levels have been decreasing steadily after a substantial increase following the injection in September 2007, and the downward trend continues to be evident. There was a slight spike in CB levels at MW-1231F after the September 2007 injection, but levels have decreased in the following sampling events. It is noted that CB is a breakdown product of the DCB/RegenOx® reaction. The noticeable increase in CB concentrations for the September 2009 sampling event was not evident in the December 2009 and March 2010 sample results. Chlorobenzene (8.7 ug/l) was detected at a level above the NYSDEC groundwater standard of 5 ug/l for this sampling event at MW-1231F. While this level is above groundwater standards, it is only slightly above the standard for CB. Initial detections of CB were three orders of magnitude (4600 ug/l) higher than current concentrations at this well location.

5.0 Summary

The findings of the June 2010 sampling event indicate that overall site contaminant levels have generally continued to be reduced by natural attenuation, augmented by in-situ chemical oxidation. Some increases in contaminant concentration have been observed in previous sampling events (September 2009). A slight increase in concentration was observed for the June 2010 sampling event for some wells at Building 1231. It is noted that these increases are for compounds with a history as persistent contaminants at the Verona site.

The compound chloromethane was detected at levels above the NYSDEC groundwater standard at multiple sample locations for the March 2010 sampling event. Due to the lack of history of chloromethane contamination at the wells, as well as the entire Verona site, these detections were questioned as to the possibility that laboratory contamination could have resulted in the detections.

Communication with Mitkem Laboratories, the contract laboratory for this project, indicated that the source of the chloromethane detections was likely the result of chloromethane contamination of the hydrochloric acid present in the Volatile Organic Analysis (VOA) vials used in the sampling process. Mitkem has since changed bottle suppliers in an effort to address this problem, and chloromethane was not detected at any well location for the June 2010 sampling event.

It is the opinion of Lu Engineers that Mitkem Laboratories has addressed the problem of chloromethane contamination by changing sample bottle suppliers. If contamination by chloromethane from an outside source occurs in future monitoring events, Lu Engineers will seek other laboratories for analytical services.

Persistent contaminants continued to appear at each well that previously indicated detections, with most concentrations below required standards. Two compounds, PCE (MW-1231E) and CB (MW-1231F) were detected above the NYSDEC groundwater standard of 5 ug/l for this sampling event.

Vinyl chloride has been detected at MW-1253E sporadically (October 2007, September 2008, and September 2009) during the monitoring of the Verona site. The compound was not detected at MW-1253E for the June 2010 sampling event. The sporadic detection of this compound is suspected to be the result of the oxidation of TCE (VC is a breakdown product of TCE), and variations of TCE concentrations at different depths below the ground surface.

Vinyl chloride is consistently detected at MW-1253H and MW-1231H, and was detected during the June 2010 sampling event at both well locations at levels below the NYSDEC groundwater standard of 2 ug/l. Vinyl chloride has not been detected at any other well at the Verona site.

Based on the field parameters and analytical findings, it is inferred that the primary processes causing attenuation at both Building 1231 and 1253 continues to be aerobic degradation and dispersion. This attenuation may have been expedited by the previous additions of sodium permanganate, RegenOx ® and vacuum extraction, particularly at the Building 1231 work area. These tasks were completed in 2007-2008, and helped to expedite the natural attenuation process, but likely have little influence on current attenuation processes. Data does not support a confirmed causal relationship between the remedial activities to date and decreased concentrations of CVOCs.

Based on the results of the June 2010 groundwater sampling analysis, the site-specific contaminants present at buildings 1231 and 1253 are either at non-detectable levels or below the NYSDEC groundwater standard levels at all monitoring wells except MW-1231E and MW-1231F. Tetrachloroethene (5.4 ug/l) was detected at MW-1231E, and CB (8.7 ug/l) was detected at MW-1231F. Both compounds are above the applicable groundwater standard of 5 ug/l.

The December 2008 sampling event had marked the first sampling event with contaminant concentrations below groundwater standards for all contaminants at each well. The December 2009 sampling event was the second sampling event with contaminant concentrations below groundwater standards for all contaminants at each well.

While CB was detected at levels above groundwater standards during this sampling event, the level detected (8.7 ug/l) is well below initial detections at MW-1231F (4600 ug/l), and may be influenced by groundwater level fluctuation and contaminant migration.

Chlorobenzene is routinely detected at this well location (MW-1231F). The history of CB detections was examined in an effort to determine seasonal trends and possible explanations for fluctuations in concentrations or "spikes" in which high concentrations are observed. A seasonal trend was observed in that the highest concentrations seem to occur during the fall monitoring events. Groundwater elevations were cross-referenced with the CB concentration "spikes" to determine if lower groundwater elevations resulted in higher CB concentrations due to increased concentration the source within the subsurface. While some of the "spikes" occurred during lower groundwater levels, other "spikes" occurred when groundwater levels were relatively high. Thus no relationship between high CB concentration and low groundwater levels could be established.

Concentration of PCE at MW-1231E (5.4 ug/l) is also above the groundwater standard and was detected at a concentration similar to previous detections. Tetrachloroethene is routinely detected at MW-1231E. Groundwater elevations were also examined to determine if a relationship could be established between lower groundwater elevations and higher PCE concentrations. Again no relationship was apparent.

As stated earlier it is likely that the cause of CB and PCE being above NYSDEC groundwater standards is due to contaminant migration within the subsurface toward the wells (MW-1231E and MW-1231F).

The current trend analyses continue to support the conclusion that natural attenuation is occurring at both study areas at the VRF. The history of chlorinated solvents such as DCB and CB in high concentration at the site reveals levels up to three orders of magnitude above applicable groundwater standards when monitoring began. While current levels appear to be reduced to within one order of magnitude or lower for site-specific contaminants, the tendency for contaminants to reappear in groundwater samples after not being detected in previous sampling events is common.

This has occurred at MW-1231E, F and H, and MW-1253E, F, and H, and indicates that attainment of target concentrations may require additional, long-term continuation of the OM&M program. Additional sampling events will likely be required to verify whether the contaminants have been fully attenuated from the site.

The trend analyses provided in Attachment 8 include projected time durations for attaining NYSDEC groundwater standards for selected wells. Future trends were evaluated by exponential regression for selected wells yielding the highest CVOC contaminant levels at the VRF. Based on the attenuation rates observed at the VRF to date, groundwater standards may be consistently attained between December 2010 and December 2017.

In an effort to simulate remediation by natural attenuation, the EPA model BIOCHLOR was utilized to model the transport rate and compare it to the biotransformation rate occurring at the Verona MNA Site. BIOCHLOR is a screening model that simulates remediation by natural attenuation of dissolved solvents at chlorinated solvent release sites. This model can be used to simulate solute transport without decay and solute transport with biodegradation. BIOCHLOR is designed specifically for use with dissolved solvents at chlorinated solvent release sites.

The Air Force Research Laboratory/ Rome Research Site and Lu Engineers are currently in the process of initial data input to the model. Output from the model will be used to further support the trends observed at the Verona MNA Site.

6.0 Recommendations

Based on the findings of the VRF OM&M program to date, Lu Engineers makes the following recommendations:

- Consider discontinuing surface water sampling in Brandy Brook. If sampling will be required in the future, only sampling for VOCs should be conducted.
- Consider elimination of filtered metals and dissolved gas sampling and analysis.
- Establish target concentrations for site-specific contaminants.
- Consider introduction of additional oxidizers such as Fenton's Reagent or similar materials for in situ chemical oxidation technology, to enhance removal of residual chlorinated solvents from the subsurface if warranted by future sampling results.

References

Operations, Monitoring and Maintenance Plan Implementation, Monitoring Network Installation, Verona Research Facility, AFRL/RRS, November 2002.

(Quarterly) Natural Attenuation Monitoring Event Reports, Verona Research Facility, AFRL/RRS, March 2002 through September 2009.

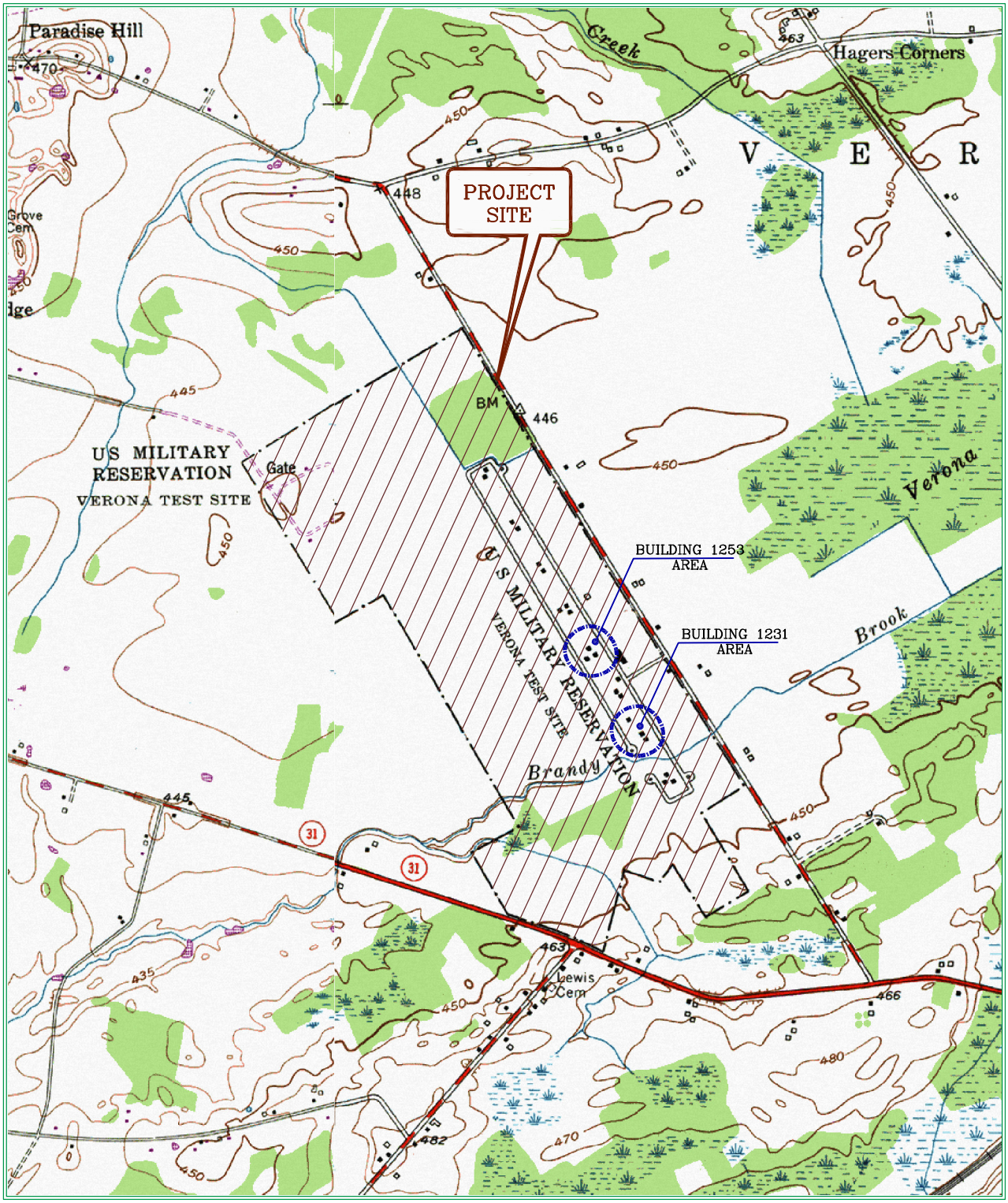
BIOCHLOR Natural Attenuation Decision Support System User's Manual Version 1.0. United States Environmental Protection Agency, Office of Research and Development, Washington DC. January 2000.

Accelerated Bioremediation with Slow Release Electron Donors and Electron Acceptors, Selected Battelle Conference Papers 2001-2002. Stephen S. Koenigsberg, 2002.

ATTACHMENT 1

Site Location Map

Verona Research Facility OM&M Update
June 2010 Sampling



SCALE: 1" = 2000'

N

NEW YORK QUADRANGLE LOCATION

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

SITE LOCATION MAP

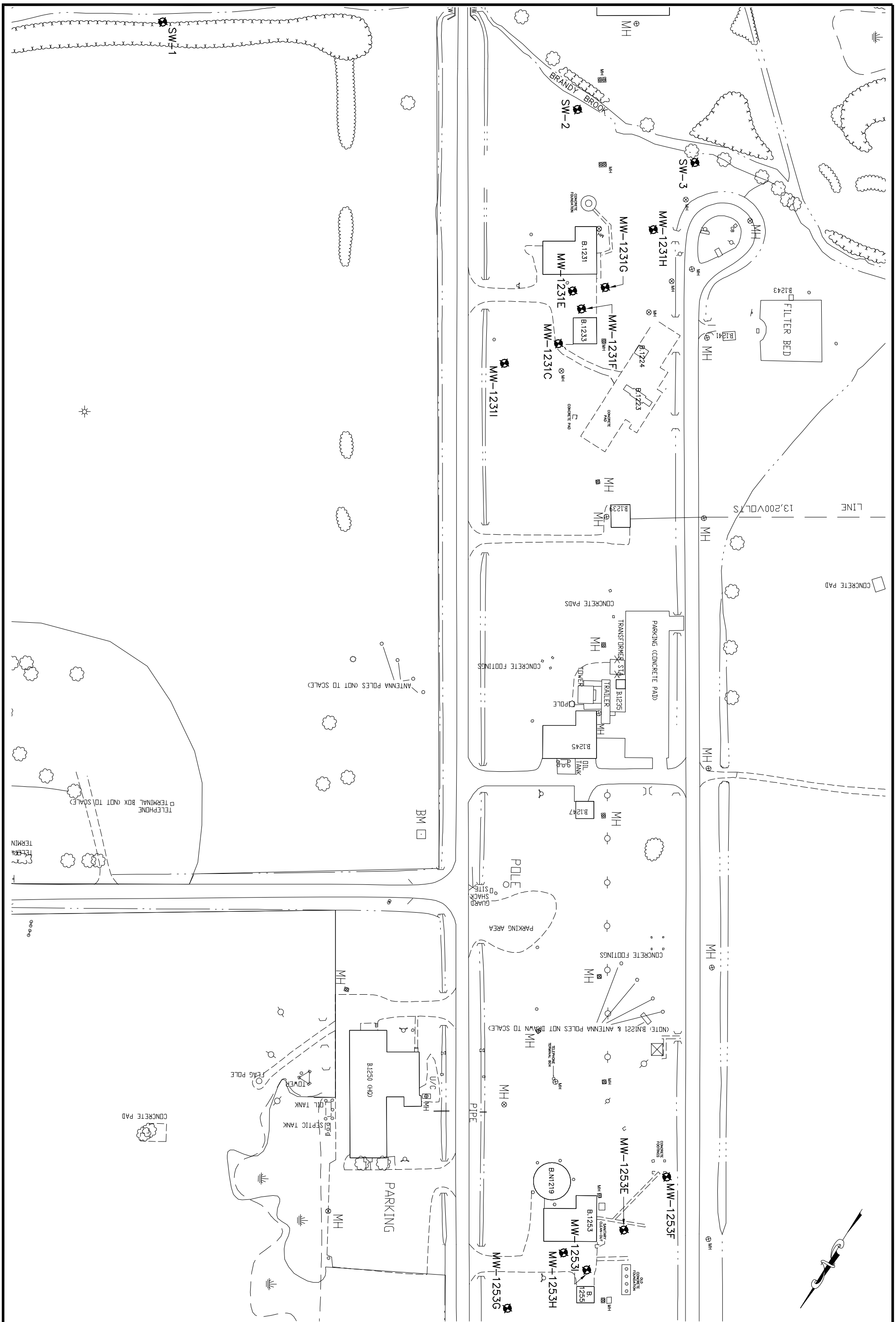
VERONA RESEARCH FACILITY
MNA STUDY
VERONA, NEW YORK

DATE:	JUNE 2009
SCALE:	1:24,000
DRAWN BY:	DLS
MAP SOURCE:	VERONA QUADRANGLE NEW YORK – ONEIDA COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) 1955

ATTACHMENT 2

Sample Location Map

Verona Research Facility OM&M Update
June 2010 Sampling



Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

SCALE: 1" = 120'	
Designer: GLA	Project Manager: RJE
Drafter: DS	Date: JUNE 2009
Project Number: 13147	
Drawing Number: 1.1	Facility Number: N/A

SAMPLE LOCATION MAP

VERONA RESEARCH FACILITY
MNA STUDY
VERONA, NEW YORK

ROME RESEARCH SITE
ROME, NY

AIR FORCE RESEARCH LABORATORY

ATTACHMENT 3

Field Parameters

Verona Research Facility OM&M Update
June 2010 Sampling

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters
May 2002 - June 2010

Location ID MW-1231C

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02	4.31	16.41	446.64	442.33	8.2	0.648	6.83	142	505	4.5	0.02
Aug-02	5.55	16.41	446.64	441.09	15.1	0.641	6.85	142	23	1.11	0.02
Nov-02	4.54	16.5	446.64	442.1	12.1	0.527	7.36	314.6	1073.6	0.05	0.34
Mar-03	4.32	16.5	446.64	442.32	5.88	0.42	7.58	173.5	175.6	0.05	0.32
Jun-03	4.67	16.5	446.64	441.97	9.71	0.524	7.23	211.6	439.1	3.44	0.36
Sep-03	4.97	16.5	446.64	441.67	14.19	0.61	7.37	330.9	146.3	11.47	0.36
Dec-03	3.96	16.5	446.64	442.68	8.79	0.448	7.81	202.1	22.1	12.26	0.32
Mar-04	4.47	16.5	446.64	442.17	5.47	0.409	7.35	248.6	9.6	5.62	0.32
Sep-06	4.94	16.47	446.23	441.29	15.6	0.655	7.02	47	42.7	2.47	0
Dec-06	4.62	16.47	446.23	441.61	9.4	0.659	7.41	26	10.2	1.68	0
Apr-07	4.65	16.5	446.23	441.58	6.51	0.716	7.63	67	0	0	0
Jun-07	6.1	16.46	446.23	440.13	12.7	0.621	7.22	-4	12.7	4.61	0
Oct-07	6.2	16.76	446.23	440.03	16.2	0.15	8.3	532	16	3.9	0.1
Dec-07	4.57	16.5	446.23	441.66	8	0.696	7.4	85	23	5.23	0
Mar-08	4.67	16.47	446.23	441.56	7.4	0.55	7.5	258	16.1	4.3	0
Jun-08	5.73	16.47	446.23	440.5	14	0.683	7.5	110	79	7.8	0
Sep-08	5.54	16.47	446.23	440.69	16	0.822	7.14	40	99.8	4.95	0
Dec-08	4.11	16.47	446.23	442.12	6.8	0.69	7.5	133	27	4.76	0
Mar-09	4.82	16.47	446.23	441.41	5.4	0.51	7.5	82	10	6.1	0
Jun-09	4.95	16.47	446.23	441.28		0.312	7.93	83	27	0.62	0
Sep-09	4.63	16.47	446.23	441.6	14.2	0.3	7.84	19	0	11.34	0
Dec-09	4.52	16.47	446.23	441.71	5.9	0.537	7.41	48	4.2	4.56	0.34
Mar-10	4.42	16.47	446.23	441.81	5.7	0.636	7.05	104	0	4.97	0
Jun-10	4.36	16.47	446.23	441.87	16.72	0.55	6.96	108	63	13.79	0

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters
May 2002 - June 2010

Location ID MW-1231E

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02	3.43	13.68	445.71	442.28	9.1	0.653	6.74	137		3.68	0.02
Aug-02	4.77	13.68	445.71	440.94	19.9	0.592	6.7	-8		0.34	0.02
Nov-02	3.82	13.86	445.71	441.89	13.1	0.415	7.4	152.6	1304.5	0.16	0.26
Mar-03	3.47	13.86	445.71	442.24	5.49	0.352	7.62	107.8	276.4	0.03	0.27
June-03	3.84	13.86	445.71	441.87	12.7	0.496	7.47	169.6	150.3	9.22	0.32
Sep-03	4.17	13.86	445.71	441.54	17.75	0.583	7.34	167.1	274.3	9.58	0.33
Dec-03	3.31	13.86	445.71	442.4	7.78	0.436	7.8	207.4	119.5	11.52	0.32
Mar-04	3.55	13.86	445.71	442.16	4.84	0.393	7.33	244.1	191.8	5.64	0.31
Sep-06	4.12	13	445.41	441.29	19.36	0.568	7.06	-117	60.8	1.96	
Dec-06	3.85	13	445.41	441.56	9.3	0.482	7.6	-51	11.6	1.84	0
Apr-07	3.78	12.9	445.41	441.63	7.15	0.46	7.82	71	0.3	0	0
Jun-07	5.25	12.85	445.41	440.16	15.1	0.462	7.37	73	1.9	3.61	0
Oct-07	5.37	13.04	445.41	440.04	18.4	83	8.2	98	13	4.6	0
Dec-07	3.79	13.04	445.41	441.62	7.9	0.526	7.5	214	10.2	5.12	0
Mar-08	3.92	13	445.41	441.49	5.5	0.38	8	293	10	4.6	0
Jun-08	4.85	13	445.41	440.56	17.6	0.555	7.6	100	50	9	0
Sep-08	4.66	13	445.41	440.75	19.4	0.597	7.17	78	91.1	7.56	0
Dec-08	3.59	13	445.41	441.82	6.2	0.479	7.6	191	22	7.2	0
Mar-09	4.13	13	445.41	441.28	6.3	0.411	7.7	84	14	5.15	0
Jun-09	4.1	13	445.41	441.31		0.254	8	80	20.7	1.11	0
Sep-09	3.89	13	445.41	441.52	16.5	0.251	7.87	77	0	5.44	0
Dec-09	3.85	13	445.41	441.56	5.1	0.388	7.51	126	9.5	4.81	0
Mar-10	3.68	13	445.41	441.73	6.1	0.617	7.2	146	0	7.21	0.1
Jun-10	3.61	13	445.41	441.8	19.3	0.559	6.77	102	48.3	9.69	0

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters
May 2002 - June 2010

Location ID MW-1231F

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02	3.68	13.37	445.9	442.22	9.7	0.658	6.9	123		4.66	0.02
Aug-02	4.88	13.37	445.9	441.02	20.3	0.599	6.74	71	607	0.22	0.02
Nov-02	3.99	14.43	445.9	441.91	14.1	0.467	7.37	286.5	1307.6	0.01	0.29
Mar-03	3.61	14.43	445.9	442.29	6.23	0.337	7.69	129.1	824.3	0	0.26
Jun-03	3.94	14.43	445.9	441.96	12.25	0.477	7.28	163.4	754.6	2.17	0.31
Sep-03	4.27	14.43	445.9	441.63	17.76	0.55	7.35	226.4	659.2	8.97	0.31
Dec-03	3.48	14.43	445.9	442.42	8.83	0.413	7.8	205.9	330	11.93	0.29
Mar-04	3.76	14.43	445.9	442.14	4.49	0.569	7.3	250.9	10.9	4.17	0.28
Sep-06	5.24	14.28	445.57	440.33	19.93	0.504	7.09	-102	77.7	6.66	
Dec-06	3.97	14.28	445.57	441.6	11	0.51	7.53	-25	67.4	1.18	
Apr-07	4.03	14.3	445.57	441.54	7.16	0.59	7.46	19	2	0	0
Jun-07	5.41	14.26	445.57	440.16	15.5	0.519	7.19	17	2.7	3.23	0
Oct-07	5.48	14.6	445.57	440.09	19.5	0.31	8.4	576	27	4.2	0.2
Dec-07	3.92	14.6	445.57	441.65	9.9	0.52	7.8	198	10.2	4.06	0
Mar-08	4.13	14.28	445.57	441.44	6.9	2.37	10.3	203	224	16.9	0.001
Jun-08	4.97	14.28	445.57	440.6	18.1	0.518	7.5	97	92	5.4	0
Sep-08	5.8	14.28	445.57	439.77	21.3	31.4	7.2	66	106	1.31	2.1
Dec-08	3.58	14.28	445.57	441.99	7.3	0.382	7.7	189	323	7.3	0
Mar-09	4.24	14.28	445.57	441.33	9.1	0.428	7.9	83	51.5	6	0
Jun-09	4.28	14.28	445.57	441.29		0.234	8.13	95	53.5	0.88	0
Sep-09	4.02	14.28	445.57	441.55	17.4	0.22	8.06	60	18.9	5.11	0
Dec-09	3.95	14.28	445.57	441.62	7.2	0.338	7.72	123	56.7	4.67	0.22
Mar-10	3.83	14.28	445.57	441.74	7.2	0.437	7.4	135	8.6	7.28	0
Jun-10	3.78	14.28	445.57	441.79	20.94	0.457	7.1	123	86.5	9.94	0

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters
May 2002 - June 2010

Location ID MW-1231G

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02	2.96	9.56	444.43	441.47	9.3	0.745	6.49	139		208	0.03
Aug-02	4.47	9.56	444.43	439.96	16.8	0.95	6.61	176		4.68	0.04
Nov-02	3.58	13.79	444.43	440.85	11.8	0.574	7.43	257.8	556.8	0	0.37
Mar-03	3.38	13.79	444.43	441.05	6.91	0.485	7.28	147.8	480.6	0.08	0.36
Jun-03	3.53	13.79	444.43	440.9	11.28	0.65	7.41	152.3	840.6	12.01	0.43
Sep-03	3.27	13.79	444.43	441.16	14.68	0.751	7.33	238.6	101.4	18.71	0.46
Dec-03	2.92	13.79	444.43	441.51	8.12	0.576	7.82	203.8	173.6	17.45	0.42
Mar-04	3.34	13.79	444.43	441.09	5.65	0.508	7.16	106.2	486.2	8	0.39
Sep-06	3.67	13.8	445.08	441.41	16.19	0.733	6.91	-41	40	5.7	0
Dec-06	3.32	13.8	445.08	441.76	7	0.774	7.29	-5	0	2.96	0
Apr-07	3.44	14.3	445.08	441.64	7.4	0.939	7.24	30	0	0	0
Jun-07	4.97	13.74	445.08	440.11	13.4	0.742	7.22	-10	1.4	6.3	0
Oct-07	5.01	14.05	445.08	440.07	15.8	95	7.8	-37	19	4.9	0
Dec-07	3.38	14.05	445.08	441.7	7	0.808	7.3	19	11	9.3	0
Mar-08	3.43	13.8	445.08	441.65	6.1	0.78	7.3	81	25.1	4.8	0
Jun-08	4.32	13.8	445.08	440.76	16.2	0.763	7	-20	4	5.7	0
Sep-08	4.28	13.8	445.08	440.8	15.6	0.98	6.62	-71	98.5	10.71	0
Dec-08	3.13	13.8	445.08	441.95	7.9	0.98	6.9	6	40	2.46	0
Mar-09	3.85	13.8	445.08	441.23	6	0.78	7.3	71	27	5	0
Jun-09	3.69	13.8	445.08	441.39		0.37	7.73	-13	12.7	0.68	0
Sep-09	3.33	13.8	445.08	441.75	13.6	0.358	7.63	-46	0	4.83	0
Dec-09	3.4	13.8	445.08	441.68	5.2	0.673	7.18	33	20.5	5.08	0
Mar-10	3.3	13.8	445.08	441.78	6.3	0.822	7	24	7	4.8	0
Jun-10	3.24	13.8	445.08	441.84	14.27	0.705	6.68	-26	59.5	12.27	0

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters
May 2002 - June 2010

Location ID MW-1231H

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02	2.39	12.28	444.64	442.25	8.6	0.717	6.58	50	675	1.6	0.03
Aug-02	3.52	12.28	444.64	441.12	14.6	0.64	6.7	-39	25	1.01	0.02
Nov-02	2.63	12.24	444.64	442.01	12.3	0.45	7.32	96.6	1214.1	0.02	0.29
Mar-03	2.43	12.24	444.64	442.21	7.01	0.419	7.54	0	573.5	0.02	0.31
Jun-03	2.77	12.24	444.64	441.87	9.76	0.459	7.13	58.1	196.7	6.09	0.32
Sep-03	3.04	12.24	444.64	441.6	13.75	0.621	7.26	66	104.6	13.52	0.39
Dec-03	2.28	12.24	444.64	442.36	9.38	0.518	7.51	135.1	28.4	11.27	0.36
Mar-04	2.46	12.24	444.64	442.18	6.44	0.695	7.14	123.6	1088.1	4.5	0.34
Sep-06	2.85	12.17	444.06	441.21	15.57	0.645	6.95	-100	37.2	1.89	
Dec-06	2.67	12.17	444.06	441.39	8.8	0.659	7.37	-82	0	2.54	0
Apr-07	2.87	12.18	444.06	441.19	7.35	0.693	7.36	-85	0	0	0
Jun-07	3.92	12.2	444.06	440.14	11.5	0.671	7.26	-90	8.6	4.28	0
Oct-07	4.16	12.5	444.06	439.9	14.7	82	7.8	-118	18	3.4	0
Dec-07	2.7	12.5	444.06	441.36	9	0.67	7.3	-65	7.5	6.9	0
Mar-08	2.89	12.17	444.06	441.2	6.9	1.07	7.3	-16	15	3.3	0.001
Jun-08	3.59	12.17	444.06	440.47	11.5	0.692	6.9	-105	27	2.51	0
Sep-08	3.41	12.17	444.06	440.65	14	0.717	7.09	-137	92.2	4.38	0
Dec-08	2.57	12.17	444.06	441.49	8.3	0.88	6.9	-46	32	1.75	0
Mar-09	3.41	12.17	444.06	440.65	7.1	0.76	7.3	45	14.1	1.73	0
Jun-09	2.85	12.17	444.06	441.21		0.281	7.88	-77	27.2	0.76	0
Sep-09	2.79	12.17	444.06	441.27	13.5	0.298	7.58	-111	2.2	4.37	0
Dec-09	2.89	12.17	444.06	441.17	7.6	0.587	7.17	-45	9.1	5.45	0.38
Mar-10	2.74	12.17	444.06	441.32	6.7	0.743	7	-50	8.7	2.28	0
Jun-10	2.62	12.17	444.06	441.44	13	0.63	6.91	-116	59.9	16.21	0

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters
May 2002 - June 2010

Location ID MW-1231I

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02	2.2	10.44	444.52	442.32	8.6	1	6.71	131		3.53	0.04
Aug-02	3.72	10.44	444.52	440.8	15.4	0.739	6.49	26		0.6	0.03
Nov-02	2.78	13.25	444.52	441.74	11.3	0.55	7.4	211.9	1297.3	0.07	0.37
Mar-03	2.53	13.25	444.52	441.99	6.01	0.485	7.6	184.3	527.4	0.1	0.37
Jun-03	2.79	13.25	444.52	441.71	9.98	0.611	7.19	231.2	472.3	7.71	0.42
Sep-03	3.14	13.25	444.52	441.38	13.55	0.681	7.37	309.8	865.4	9.87	0.43
Dec-03	2.24	13.25	444.52	442.28	8.14	0.597	7.41	211	133	10.01	0.43
Mar-04	2.58	13.25	444.52	441.94	6.76	0.851	6.99	249.1	21.2	1.91	0.42
Sep-06	2.93	13.25	444.1	441.17	15.31	0.762	6.85	-36	79.1	0.42	
Dec-06	2.67	13.25	444.1	441.43	9.5	0.783	7.37	-32	22.3	2.75	0
Apr-07	2.75	13.23	444.1	441.35	6.43	1.06	7.35	21	17.5	0	0
Jun-07	5.58	13.29	444.1	438.52	11.5	0.671	7.26	-90	8.6	4.28	0
Oct-07	4.15	13.55	444.1	439.95	15.4	0.11	8	-45	19	4.5	0
Dec-07	2.56	13.55	444.1	441.54	6.3	0.878	7.4	64	40.5	5.58	0
Mar-08	2.72	13.25	444.1	441.38	6	0.89	7.3	125	152	4.4	0
Jun-08	3.66	13.25	444.1	440.44	13.9	0.887	7.1	-48	28	4.6	0
Sep-08	3.48	13.25	444.1	440.62	15.9	0.95	7.03	-87	91.6	6.22	0
Dec-08	2.38	13.25	444.1	441.72	7.6	0.97	7.3	116	29	3.3	0
Mar-09	2.36	13.25	444.1	441.74	6.7	0.814	7.2	78	10.4	3.85	0
Jun-09	2.87	13.25	444.1	441.23		0.43	7.9	-25	29.3	1.03	0
Sep-09	2.64	13.25	444.1	441.46	13.4	0.392	7.95	-66	7.2	7.04	0
Dec-09	2.65	13.25	444.1	441.45	6.2	0.697	7.27	14	2.6	5.15	0
Mar-10	2.51	13.25	444.1	441.59	5.9	0.865	6.93	24	0	3	0
Jun-10	3.12	13.25	444.1	440.98	15.14	0.809	6.82	-51	196	11.68	0

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters
May 2002 - June 2010

Location ID MW-1253E

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02	3.34	14.4	448.36	445.02	9.4	0.711	6.82	55		2.53	0.02
Aug-02	6.18	14.4	448.36	442.18	15.9	0.773	6.86	8		1.41	0.03
Nov-02	3.94	14.71	448.36	444.42	11.9	0.523	7.2	93.9	1300.8	0.01	0.34
Mar-03	3.25	14.71	448.36	445.11	5.91	0.439	7.44	91.6	1277.4	0.1	0.34
Jun-03	3.94	14.71	448.36	444.42	11.18	0.573	7.08	86.4	1300.4	1.47	0.38
Sep-03	4.91	14.71	448.36	443.45	14.45	0.68	7.28	65.6	1210.5	15.18	0.042
Dec-03	3.04	14.71	448.36	445.32	7.32	0.543	7.52	137.2	1279.8	12.5	0.4
Mar-04	3.45	14.71	448.36	444.91	4.97	0.49	7.12	151.3	393.1	5.83	0.39
Sep-06	4.7	14.63	448.24	443.54	15.59	0.76	6.9	-60	73	0.8	
Dec-06	3.46	14.65	448.24	444.78	9	0.689	7.32	-39	9	2.9	
Apr-07	3.45	14.6	448.24	444.79	5.78	0.743	7.34	0	5.8	0	0
Jun-07	6	14.52	448.24	442.24	11.3	0.693	7.11	-31	4.7	4.27	0
Oct-07	5.55	14.85	448.24	442.69	15	87	7.9	-97	22	3.6	0
Dec-07	3.58	14.85	448.24	444.66	6.7	0.65	6.8	292	7.8	3.78	0
Mar-08	3.67	14.65	448.24	444.57	6.1	5.39	7.4	54	7.9	1.79	0.03
Jun-08	5.29	14.65	448.24	442.95	14.1	0.656	7.3	-54	25	6.2	0
Sep-08	5.34	14.65	448.24	442.9	15	0.82	7	-114	82.4	2.4	0
Dec-08	3.02	14.65	448.24	445.22	7	0.9	6.8	81	37	1.7	0
Mar-09	3.82	14.65	448.24	444.42	6.1	0.57	7.1	55	4.1	0.53	0
Jun-09	4.84	14.65	448.24	442.75		0.3	7.84	21	38.4	0.45	0
Sep-09	4.18	14.65	448.24	444.06	13.9	0.337	7.67	-88	0	2.42	0
Dec-09	3.53	14.65	448.24	444.71	4	0.616	7.11	35	1.4	0.74	0
Mar-10	3.31	14.65	448.24	444.93	6.4	0.745	6.9	25	0	10.32	0
Jun-10	3.58	14.65	448.24	444.66	15	0.641	6.73	-16	72.2	10.43	0

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters
May 2002 - June 2010

Location ID MW-1253F

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02	3.04	13.68	447.76	444.72	9.2	0.773	6.73	104		4.8	0.03
Aug-02	6.36	13.68	447.76	441.4	16.3	0.906	6.59	37		1.17	0.03
Nov-02	3.92	14.1	447.76	443.84	11.3	0.668	7.03	210.3	247.9	0	0.45
Mar-03	3.33	14.1	447.76	444.43	4.89	0.395	7.53	119.3	124.1	0.01	0.31
Jun-03	4.08	14.1	447.76	443.68	12.29	0.61	7	109.2	223.7	6.09	0.4
Sep-03	5.12	14.1	447.76	442.64	14.69	0.785	7.05	234.1	24.1	17.82	0.049
Dec-03	3.92	14.1	447.76	443.84	6.08	0.531	7.4	147.6	120.9	15.1	0.41
Mar-04	3.49	14.1	447.76	444.27	4.53	0.723	6.82	157.3	167.5	8.96	0.35
Sep-06	4.82	13.76	447.59	442.77	16.27	0.781	6.81	78	12.2	5.25	
Dec-06	3.39	13.76	447.59	444.2	8.7	0.724	7.21	41	2.6	2.09	
Apr-07	3.45	13.45	447.59	444.14	5.5	0.893	7.29	101	0	0	0
Jun-07	5.9	13.2	447.59	441.69	12.1	0.739	7.1	32	0.1	6.39	0
Oct-07	5.71	14.1	447.59	441.88	15.8	90	7.8	33	10	4.1	0
Dec-07	3.55	14.1	447.59	444.04	6.4	0.826	7.2	110	2.2	4.79	0
Mar-08	3.69	13.76	447.59	443.9	5.6	5.97	7.4	151	4.5	1.3	0.003
Jun-08	5.38	13.76	447.59	442.21	13.5	0.734	7	25	78	3.1	0
Sep-08	5.31	13.76	447.59	442.28	16.2	0.87	6.9	-36	85.8	8.3	0
Dec-08	3.02	13.76	447.59	444.57	6.9	1.11	6.8	129	10.3	1.93	0.001
Mar-09	3.61	13.76	447.59	443.98	5.5	0.62	7.22	78	1.7	1.43	0
Jun-09	4.84	13.76	447.59	443.4		0.308	7.9	118	52.2	0.53	0
Sep-09	4.38	13.76	447.59	443.21	14.2	0.335	7.59	-4	0	7.77	0
Dec-09	3.53	13.76	447.59	444.06	3.9	0.732	7.02	70	5.1	4.28	0
Mar-10	3.39	13.76	447.59	444.2	6.3	0.786	6.89	74	0	6.09	0
Jun-10	3.61	13.76	447.59	443.98	14.82	0.724	6.7	51	80.4	12.5	0

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters
May 2002 - June 2010

Location ID MW-1253G

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02	2.79	13.05	448.01	445.22	8.6	0.668	6.82	60		2.1	0.02
Aug-02	4.78	13.05	448.01	443.23	17.8	0.815	6.32	125		0.67	0.03
Nov-02	3.47	12.65	448.01	444.54	11	0.503	7.25	112.8	1297.3	0.03	0.34
Mar-03	3.07	12.65	448.01	444.94	4.7	0.366	7.58	32	1269.7	0.05	0.29
Jun-03	3.63	12.65	448.01	444.38	11.52	0.53	7.19	28.2	817.6	2.49	0.35
Sep-03	3.88	12.65	448.01	444.13	14.16	0.621	7.26	60.3	982	12.28	0.39
Dec-03	2.81	12.65	448.01	445.2	6.89	0.445	7.61	99.4	1193.2	13.21	0.33
Mar-04	3.21	12.65	448.01	444.8	4.19	0.631	7.37	87.3	66.4	8.17	0.31
Sep-06	4.14	12.52	448.01	443.87	15.43	0.715	6.92	-59	28.2	3.68	
Dec-06	3.46	12.52	448.01	444.55	8.6	0.766	7.22	-27	3.1	0.36	0
Apr-07	2.45	12.54	448.01	445.56	6	0.95	7.28	16	0	0	0
Jun-07	5.26	16.05	448.01	442.75	12.2	0.78	7.05	0.78	9.3	2.72	0
Oct-07	4.56	12.8	448.01	443.45	16	97	7.8	26	9	3.6	0
Dec-07	3.31	12.8	448.01	444.7	6.3	0.791	7	48	4.6	1.65	0
Mar-08	3.79	12.52	448.01	444.22	5.7	1.4	7.3	117	51	4.4	0.001
Jun-08	4.56	12.52	448.01	443.45	14.8	0.756	6.9	-58	13	5.1	0
Sep-08	4.69	12.52	448.01	443.32	16.4	0.856	7.11	-129	89.2	9.95	0
Dec-08	2.98	12.52	448.01	445.03	6.1	0.96	6.9	43	13	3.02	0
Mar-09	3.81	12.52	448.01	444.2	5.7	0.75	7.3	61	4.1	1.9	0
Jun-09	4.48	12.52	448.01	444.51		0.415	7.9	-55	48.5	1.1	0
Sep-09	3.29	12.52	448.01	444.72	14.7	0.38	7.48	-74	0	0.01	0
Dec-09	3.32	12.52	448.01	444.69	5	0.709	7.21	-17	6.1	7.01	0
Mar-10	3.24	12.52	448.01	444.77	5.7	0.799	7.02	7	0	2.36	0
Jun-10	3.32	12.52	448.01	444.69	15.84	0.721	6.76	-51	106	12.45	0

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters
May 2002 - June 2010

Location ID MW-1253H

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02	3.54	16.43	448.89	445.35	10	0.772	6.74	-0.24		2.29	0.03
Aug-02	5.76	16.43	448.89	443.13	19	0.707	6.54	-78	0	0.59	0.03
Nov-02	4.24	16.25	448.89	444.65	13.1	0.599	7.3	-80.6	48.2	0.08	0.38
Mar-03	3.76	16.25	448.89	445.13	6.7	0.514	7.47	2.7	252.8	0.02	0.38
Jun-03	4.33	16.25	448.89	444.56	11.89	0.63	7.2	5.3	34.6	6.4	0.42
Sep-03	4.86	16.25	448.89	444.03	16.77	0.758	7.3	22.1	540.7	20.61	0.44
Dec-03	3.56	16.25	448.89	445.33	8.32	0.604	7.45	86.7	15.4	17.94	0.44
Mar-04	4	16.25	448.89	444.89	5.84	0.572	7.08	70.8	19	5.96	0.44
Sep-06	4.92	16.2	448.74	443.82	17.37	0.732	6.91	-112	19.4	2.63	
Dec-06	4.11	16.2	448.74	444.63	10.4	0.746	7.32	-99	8	1.71	
Apr-07	4.08	16.15	448.74	444.66	7.15	0.905	7.35	-88	3.6	0.14	0
Jun-07	5.92	16.05	448.74	442.82	14.8	0.809	7.04	-95	1	3.18	0
Oct-07	5.55	16.42	448.74	443.19	18.3	0.18	8.1	521	31	3.7	0.1
Dec-07	4.18	16.42	448.74	444.56	8.1	1.03	7.3	153	88.9	6.64	0
Mar-08	4.31	16.2	448.74	444.43	7.5	1.18	7.4	63	19	4.1	0.001
Jun-08	5.28	16.2	448.74	443.46	16.3	0.552	7.2	-28	11	4.8	0
Sep-08	5.51	16.2	448.74	443.23	17.5	0.686	7.28	-125	92.9	6.81	0
Dec-08	3.5	16.2	448.74	445.24	8.7	0.86	7.3	8	12	2.9	0
Mar-09	4.28	16.2	448.74	444.46	7.1	0.505	7.7	61	2.3	1.56	0
Jun-09	5.02	16.2	448.74	443.72		0.279	7.97	-73	17.9	0.67	0
Sep-09	4.21	16.2	448.74	444.53	15.5	0.284	7.71	-74	0	1.28	0
Dec-09	4.02	16.2	448.74	444.72	7.9	0.437	7.48	-53	4.3	2.07	0
Mar-10	3.86	16.2	448.74	444.88	6.9	0.617	7.22	-52	0	4.15	0
Jun-10	3.96	16.2	448.74	444.78	15.93	0.518	7.06	-105	91.8	13.14	0

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters
May 2002 - June 2010

Location ID MW-1253I

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02	3.71	16.23	448.86	445.15	10.8	0.832	6.65	105		1.74	0.03
Aug-02	6.04	16.23	448.86	442.82	21.6	0.845	6.57	76	0	1.3	0.03
Nov-02	4.28	16.31	448.86	444.58	14	0.684	7.09	102.6	402.9	0.01	0.43
Mar-03	3.83	16.31	448.86	445.03	6.09	0.537	7.31	67.3	271.4	0.03	0.4
Jun-03	4.45	16.31	448.86	444.41	13.79	0.75	6.95	68.2	573.4	1.76	0.47
Sep-03	4.99	16.31	448.86	443.87	19.01	0.858	7.05	137	210.6	17.49	0.48
Dec-03	3.49	16.31	448.86	445.37	7.23	0.596	7.45	132.9	107.4	9.7	0.45
Mar-04	4.09	16.31	448.86	444.77	5.59	0.842	7.25	159.9	54.9	4.99	0.41
Sep-06	5.13	16.2	448.99	443.86	20.26	0.694	6.78	-63	18	3.9	
Dec-06	4.28	16.2	448.99	444.71	10.4	0.694	7.31	-51	1.9	3	
Apr-07	4.33	16.21	448.99	444.66	7.28	0.872	7.36	-19	0	0	0
Jun-07	6.23	16.18	448.99	442.76	19.7	0.726	6.96	-8	0.3	2.45	0
Oct-07	5.85	16.48	448.99	443.14	20.4	94	7.8	42	11	3.7	0
Dec-07	4.42	16.48	448.99	444.57	8.4	0.755	7.2	35	3	3.71	0
Mar-08	4.57	16.2	448.99	444.42	7.2	2.95	7.4	73	43.1	3	0.002
Jun-08	5.66	16.2	448.99	443.33	18.2	0.709	6.9	-68	95	4.3	0
Sep-08	5.85	16.2	448.99	443.14	20.1	0.771	7.06	-107	87.3	6.49	0
Dec-08	3.79	16.2	448.99	445.2	8.1	0.82	7.2	12	26	4.8	0
Mar-09	4.64	16.2	448.99	444.35	7.4	0.69	7.3	58	2.3	1.5	0
Jun-09	5.41	16.2	448.99	442.6		0.575	7.68	-32	13.3	0.82	0
Sep-09	4.54	16.2	448.99	444.45	18	0.317	7.55	-72	0	1.21	0
Dec-09	4.36	16.2	448.99	444.63	6.8	0.6	7.17	-19	6.4	6.04	0
Mar-10	4.28	16.2	448.99	444.71	7.2	0.761	7.04	3	0	10.27	0
Jun-10	4.34	16.2	448.99	444.65	17.89	0.623	6.77	-53	87.1	9.22	0

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters
May 2002 - June 2010

Location ID SW-1

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02					13	0.267	7.03	121	0	4.42	0.01
Aug-02					19.5	0.379	6.8	140	0	2.6	0.01
Nov-02					8.2	0.334	7.51	256.1	3	0	0.24
Mar-03					6.12	0.155	8.43	82.3	6.3	0.15	0.12
Jun-03					21.6	0.32	7.64	77.9	18.4	9.83	0.16
Sep-03					13.93	0.462	7.55	132.9	20.1	18.6	0.29
Dec-03					1.66	0.255	8.11	108.6	9.8	22.8	0.22
Mar-04					1.04	0.725	7.7	108.9	7.3	11.61	0.36
Sep-06											
Dec-06					2	0.304	7.73	75	0.7	9.6	0
Apr-07					4.66	0.337	7.7	162	0	0	0
Jun-07					17.8	0.481	7.64	109	14.7	6.1	0
Oct-07					18.1	59	8.2	312	14	5.6	0
Dec-07					0.2	0.563	7.8	182	43	12	0
Mar-08					4.9	0.22	8.3	295	51	9.9	0
Jun-08					21	0.497	7.6	26	11	7.7	0
Sep-08					13.9	0.719	5.62	87	92.2	11.2	0
Dec-08					0.8	0.27	7.9	168	32	11.8	0
Mar-09					6.9	0.23	8.1	84	44	5.5	0
Jun-09						0.153	8.02	149	25.3	1.13	0
Sep-09					12.1	0.173	8.5	111	12.1	11.28	0
Dec-09					0.1	0.32	7.02	91	-5	2.95	0
Mar-10					7.8	0.249	5.3	256	0	10.92	0
Jun-10					25.12	0.268	7.16	-37	576	14.02	0

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters
May 2002 - June 2010

Location ID SW-2

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02					12.8	0.313	6.62	123	59	1.67	0.01
Aug-02					18.4	0.33	6.67	130	0	1.9	0.01
Nov-02					7	0.318	7.44	251.7	3.9	0	0.23
Mar-03					2.76	0.137	8.04	74.5	4	0.04	0.11
Jun-03					20.97	0.293	7.31	53	4.2	7.71	0.15
Sep-03					13.09	0.432	7.7	185.6	6.2	19.41	0.27
Dec-03					0.92	0.26	7.83	135.9	8.6	22.85	0.23
Mar-04					0.86	0.734	7.56	140.2	5	10.63	0.36
Sep-06											
Dec-06					1.9	0.316	7.88	-33	30.9	8.59	0
Apr-07					6.39	0.338	8.16	128	0	0	0
Jun-07					19.1	0.418	7.7	31	7.6	7.51	0
Oct-07					19.6	57	8.2	337	13	8	0
Dec-07					0.1	0.64	7.8	155	377	10.8	0
Mar-08					2.7	0.22	7.8	230	25	8.11	0
Jun-08					21.8	0.442	7.8	62	22.6	9.8	0
Sep-08					15.5	0.679	7.66	-145	418	5.48	0
Dec-08					0.6	0.29	7.8	147	110	12.6	0
Mar-09					5.4	0.25	8	84	36	6.7	0
Jun-09						0.172	8.3	30	182	1.33	0
Sep-09					12.4	0.18	8.24	94	10.2	10.68	0
Dec-09					0	3.99	7.5	70	154	3.03	0
Mar-10					6.7	0.277	7.54	62	26.1	12.59	0
Jun-10					25.67	0.304	7.42	21	89.3	13.23	0

Verona Research Site Monitored Natural Attenuation

Groundwater Field Parameters
May 2002 - June 2010

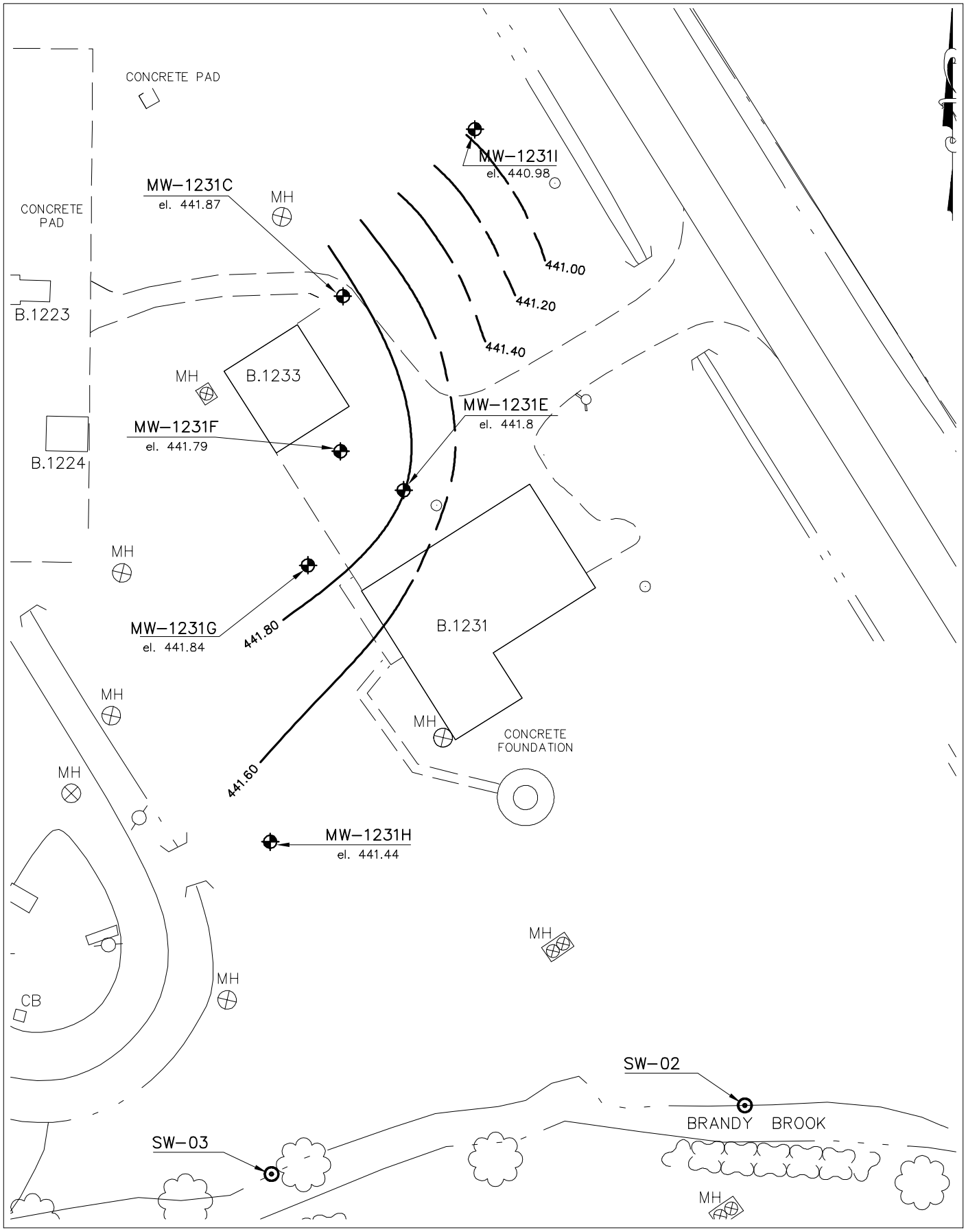
Location ID SW-3

Date	Depth to Water (DTW)	Total Depth of Well (TDW)	Reference Elevation (ft)	Water Elevation (ft)	Temperature (C)	Conductivity (ms/cm)	pH	Eh (mV)	Turbidity	Dissolved Oxygen (ppm)	Salinity
May-02					13.2	0.279	6.66	108	15	1.3	0.01
Aug-02					19.4	0.36	6.72	150	0	1.3	0.01
Nov-02					6.8	0.316	7.44	257.4	7.5	0.01	0.23
Mar-03					3.22	0.147	8.19	66.8	4.1	0.07	0.12
Jun-03					20	0.295	7.32	45.9	2.6	7.23	0.16
Sep-03					13.85	0.455	7.72	149.3	9.2	19.04	0.28
Dec-03					1.18	0.27	7.94	133.6	6.1	21.4	0.24
Mar-04					1.59	0.798	7.68	144.8	58	9.51	0.39
Sep-06											
Dec-06					2.1	0.312	7.85	19	9.1	9.24	0
Apr-07					5.88	0.336	8.07	85	1.5	1.44	0
Jun-07					18	0.42	7.91	-8	9.3	8.67	0
Oct-07					19.1	58	7.9	379	12	6.7	0
Dec-07					0.5	0.634	8.2	75	219	12.34	0
Mar-08					2.7	0.22	7.8	63	18	9.5	0
Jun-08					19.9	0.43	7.5	12	7	8.6	0
Sep-08					14.2	0.673	7.61	-109	107	8.94	0
Dec-08					1	0.31	7.8	138	25	10.89	0
Mar-09					3.8	0.25	7.2	81	11.1	8.2	0
Jun-09						0.15	8.2	40	25	0.92	0
Sep-09					12.5	0.184	8.38	105	3.8	11.74	0
Dec-09					0	0.298	8.23	177	184	9.62	0
Mar-10					6.5	134	7.17	134	0	12.61	0
Jun-10					26.67	0.272	7.87	-86	71.3	13.09	0

ATTACHMENT 4

Groundwater Contour Maps

Verona Research Facility OM&M Update
June 2010 Sampling

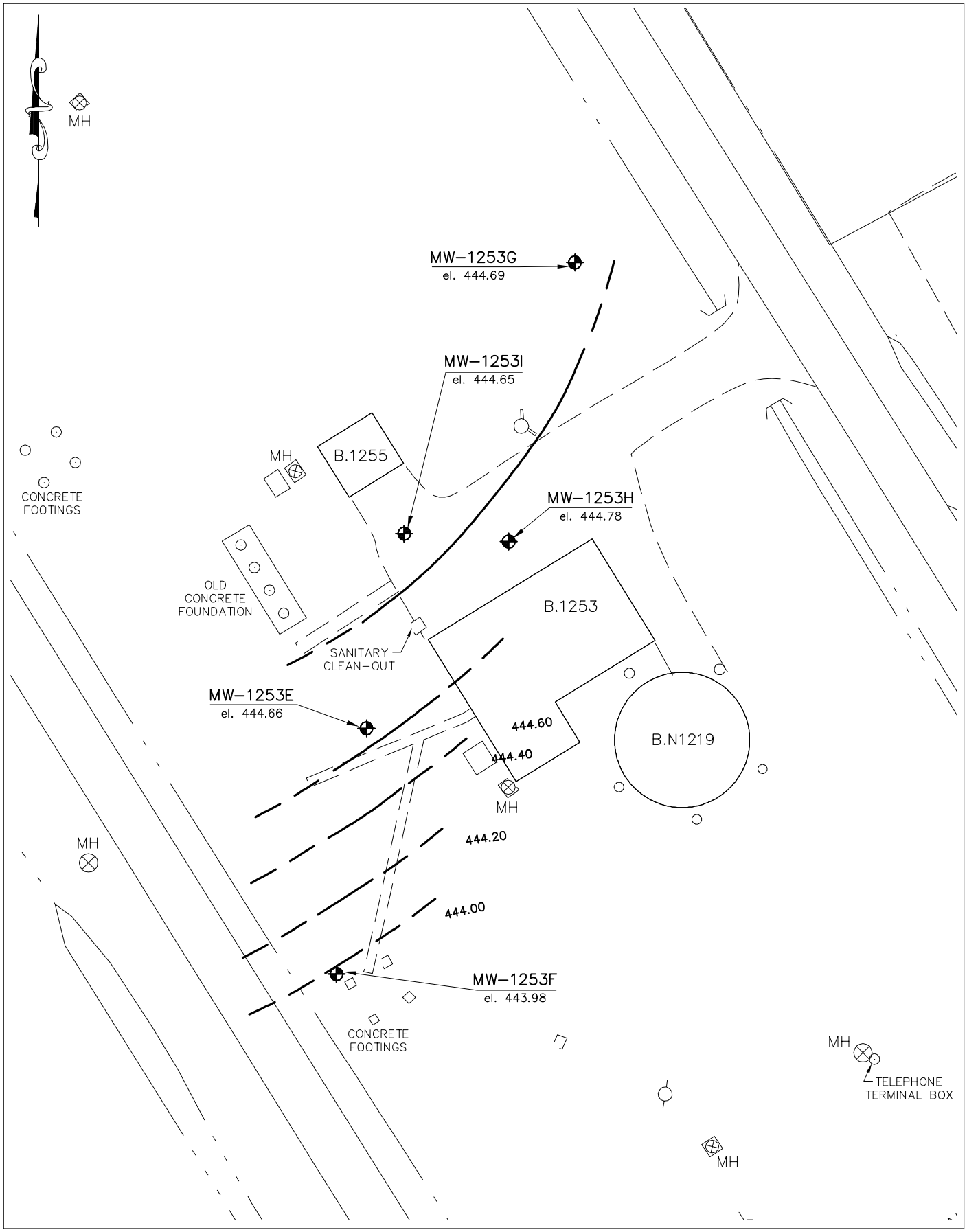


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VERONA RESEARCH FACILITY

VERONA MNA STUDY
JUNE 2010 GROUNDWATER CONTOURS
VERONA, NEW YORK

DATE:	AUG. 2010
SCALE:	1" = 50'
DRAWN BY:	BCB
CHECKED BY:	GLA



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VERONA RESEARCH FACILITY

VERONA MNA STUDY
JUNE 2010 GROUNDWATER CONTOURS
VERONA, NEW YORK

DATE:	AUG. 2010
SCALE:	1" = 50'
DRAWN BY:	BCB
CHECKED BY:	GLA

ATTACHMENT 5

Volatile Organic Analytical Results

Verona Research Facility OM&M Update
June 2010 Sampling

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through June 2010

Location ID MW-1231C

Total VOCs Current Sampling Event: 5.85

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds ug/L	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																																23						
Aug-02																																23						
Nov-02																																40				6		
Mar-03																																12						
Jun-03																																25						
Sep-03																																20						
Dec-03																																24						
Mar-04																																36				5.5		
Sep-06																							3.9									20				5.1		
Dec-06																																10				3.5		
Apr-07																								4.1								13				3.1		
Jun-07																								3.9								14				3.8		
Oct-07															2.1									1.9								11						
Dec-07																								1.5								9.7				2.3		
Mar-08																																8.6				1.9		
Jun-08																																17				3.5		
Sep-08																								1.1								14				3.2		
Dec-08																																4.2				1.5		
Mar-09																																4.1				1.5		
Jun-09																																4.1						
Sep-09																								1.6								5.8				2.4		
Dec-09																								1.1								4				1.8		
Mar-10																								0.8								3.8				1.5		
Jun-10																								0.75								3.7				1.4		

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through June 2010

Location ID MW-1231E

Total VOCs Current Sampling Event: 5.4

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds ug/L	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																				9000																		
Aug-02																				670																		
Nov-02																				450																		
Mar-03																				180																		
June-03										25										430																		
Sep-03										33										670																		
Dec-03																				230																		
Mar-04										19										120																		
Sep-06									3.9	35										78																		
Dec-06										8.4										9.5																		
Apr-07																																	4.3					
Jun-07										8.2										9.1													4.5					
Oct-07						2.1			2.4	16										16				1.1									1.9				1.1		
Dec-07										4.1										5.4													2.4					
Mar-08										1.7										1.9													2.6					
Jun-08		1.2							1.3	9.6										14				1.8									3.5				1.5	
Sep-08																																					7.3	
Dec-08																																	2.8					
Mar-09																																	3.7					
Jun-09																																	7.3				0.79	
Sep-09																																	4.5					
Dec-09																							0.67										2.9					
Mar-10																							12										3.5					
Jun-10																																	5.4					

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through June 2010

Location ID MW-1231F

Total VOCs Current Sampling Event: 16.53

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds ug/L	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02															29					4600													7						
Aug-02															20					3200													7						
Nov-02						180			240	900										2100																			
Mar-03						160			250	900										1800																			
Jun-03						180			280	940										2000																			
Sep-03						200			320	1000										2000																			
Dec-03						110			160	480										1000																			
Mar-04						140			190	460										890																			
Sep-06						43			78	180										420																			
Dec-06						57			97	260										350																			
Apr-07						21			43	92										200																	3.1		
Jun-07						34			54	130										190																	3.1		
Oct-07						84			180	400										470																			
Dec-07						28			69	160										110														2.8						
Mar-08						5.9			18	37										130														2.4						
Jun-08									10	20																								4.4				1.2		
Sep-08						1.6			5.3	11										49		1.1												5				1.6		
Dec-08										1.3										2.6														2.2						
Mar-09										1.3										3.4														2.6						
Jun-09									0.64	1.6										3.2														3.3				1.3		
Sep-09						1.2			3	7										30														3.5				1.9		
Dec-09									0.76	1.3										3.9														2.3	0.73					
Mar-10									0.69	1.4										4.7														2.2						
Jun-10									1.2	2.6										8.7		0.63												2.3				1.1		

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through June 2010

Location ID MW-1231G

Total VOCs Current Sampling Event: 0

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds ug/L	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																																						
Aug-02																																						
Nov-02																																						
Mar-03																																						
Jun-03																																						
Sep-03																																						
Dec-03																																						
Mar-04																																						
Sep-06																																						
Dec-06																																						
Apr-07		3.4								4																												
Jun-07																																						
Oct-07										2.2																												
Dec-07																																						
Mar-08																																						
Jun-08																																						
Sep-08																																						
Dec-08																																						
Mar-09																																						
Jun-09																																						
Sep-09																																						
Dec-09																																						
Mar-10																																						
Jun-10																																						

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through June 2010

Location ID MW-1231H

Total VOCs Current Sampling Event: 2.28

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds ug/L	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																																						
Aug-02																																						
Nov-02																																						
Mar-03																																						
Jun-03																																						
Sep-03																																						
Dec-03																																						
Mar-04																																						
Sep-06																																						
Dec-06																																						
Apr-07																																						
Jun-07																																						
Oct-07																																						
Dec-07																																						1.2
Mar-08																																						
Jun-08																													1.7	2.9								
Sep-08																																						1.1
Dec-08																							140															
Mar-09																								1.1														2
Jun-09																																						2.1
Sep-09																																						2
Dec-09																								1.2														1.5
Mar-10																							15	0.9														1.3
Jun-10																								0.78														1.5

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through June 2010

Location ID MW-1231I

Total VOCs Current Sampling Event: 0

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds ug/L	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																																						
Aug-02																																						
Nov-02																																						
Mar-03																																						
Jun-03																																						
Sep-03																																						
Dec-03																																						
Mar-04																																						
Sep-06																							3.5															
Dec-06																																						
Apr-07																																						
Jun-07																																						
Oct-07																																						
Dec-07																																						
Mar-08																																						
Jun-08																																						
Sep-08																																						
Dec-08																																						
Mar-09																																						
Jun-09																																						
Sep-09																																						
Dec-09																																						
Mar-10																							11															
Jun-10																																						

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through June 2010

Location ID MW-1253E

Total VOCs Current Sampling Event: 0.84

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds ug/L	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																																						
Aug-02																																						
Nov-02																																						
Mar-03																																						
Jun-03																																						
Sep-03																																						
Dec-03																																						
Mar-04																																						
Sep-06																							3.4															
Dec-06																						4.3																
Apr-07																																						
Jun-07																																						
Oct-07																								3.1														7.8
Dec-07										1.5																												
Mar-08																																						
Jun-08																																						
Sep-08										8.9														3									1.4					5.2
Dec-08																																						
Mar-09																																						
Jun-09																																						
Sep-09										6.3														10														25
Dec-09																																						
Mar-10																																						
Jun-10																								0.84														

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through June 2010

Location ID MW-1253F

Total VOCs Current Sampling Event: 0

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds ug/L	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																																						
Aug-02																																						
Nov-02																																						
Mar-03																																						
Jun-03																																						
Sep-03																																						
Dec-03																																						
Mar-04																																						
Sep-06																																						
Dec-06																																						
Apr-07																																						
Jun-07																																						
Oct-07																																						
Dec-07																																						
Mar-08																																						
Jun-08																																						
Sep-08																														1.3								
Dec-08																																						
Mar-09																														1.1								
Jun-09																																						
Sep-09																																						
Dec-09																																						
Mar-10																													15									
Jun-10																																						

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through June 2010

Location ID MW-1253G

Total VOCs Current Sampling Event: 0

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds ug/L	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																																						
Aug-02																																						
Nov-02																																						
Mar-03																																						
Jun-03																																						
Sep-03																																						
Dec-03																																						
Mar-04																																						
Sep-06																																						
Dec-06																																						
Apr-07																																						
Jun-07																																						
Oct-07																																						
Dec-07																																						
Mar-08																																						
Jun-08																																						
Sep-08																														1.1								
Dec-08																																						
Mar-09																																						
Jun-09																																						
Sep-09																																						
Dec-09																													0.7									
Mar-10																																						
Jun-10																																						

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through June 2010

Location ID MW-1253H

Total VOCs Current Sampling Event: 2.47

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds ug/L	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																																			6				
Aug-02																																							
Nov-02																																			6				26
Mar-03																																							
Jun-03												11																											
Sep-03																																							
Dec-03																																							
Mar-04																																							16
Sep-06				3.8																																			27
Dec-06																																							23
Apr-07																																							22
Jun-07																																							26
Oct-07	6			4.2																																			
Dec-07	1.8			2.6																																			19
Mar-08	1.7			2.8																																			27
Jun-08																																							
Sep-08																																							1.3
Dec-08																																							
Mar-09																																							4.9
Jun-09				0.91																																			1.4
Sep-09																																							2
Dec-09																																							1.4
Mar-10				0.69																										13									4.3
Jun-10				0.67																																			1.8

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through June 2010

Location ID MW-1253I

Total VOCs Current Sampling Event: 2.17

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds ug/L	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																																		33		25		
Aug-02																																						
Nov-02																																		9				
Mar-03																																						
Jun-03																																				12		
Sep-03																								9.8												17		
Dec-03																																						
Mar-04																																				7.1		
Sep-06																																				5		
Dec-06																																						
Apr-07																																						
Jun-07																																						
Oct-07																								1.7										1.5		1.3		
Dec-07																								2										1.5		2.1		
Mar-08																																		1.3		1.3		
Jun-08																								1.7										1		2.5		
Sep-08																								3									1	1.8		3.2		
Dec-08																																				1.2		
Mar-09																																						
Jun-09																								0.9										0.6		1.5		
Sep-09																								2												2		
Dec-09																							0.71	1.6										1.4		1.7		
Mar-10																																				0.74		
Jun-10																								0.77												1.4		

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through June 2010

Location ID SW-1

Total VOCs Current Sampling Event: 0

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds ug/L	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																																						
Aug-02																																						
Nov-02																																						
Mar-03																																						
Jun-03																																						
Sep-03																																						
Dec-03																																						
Mar-04																																						
Sep-06																																						
Dec-06																																						
Apr-07																																						
Jun-07																																						
Oct-07																																						
Dec-07																																						
Mar-08																																						
Jun-08												5																										
Sep-08																														120								
Dec-08																																						
Mar-09																																						
Jun-09																																						
Sep-09																																						
Dec-09																														0.72								
Mar-10																														13								
Jun-10																																						

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through June 2010

Location ID SW-2

Total VOCs Current Sampling Event: 0

Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds ug/L	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																																						
Aug-02																																						
Nov-02																																						
Mar-03																																						
Jun-03																																						
Sep-03																																						
Dec-03																																						
Mar-04																																						
Sep-06																																						
Dec-06																																						
Apr-07																																						
Jun-07																																						
Oct-07																																						
Dec-07																																						
Mar-08																																						
Jun-08																																						
Sep-08																																						
Dec-08																																						
Mar-09																																						
Jun-09																																						
Sep-09																																						
Dec-09																																						
Mar-10																																						
Jun-10																																						

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Analytical Results May 2002 through June 2010

Location ID SW-3

Total VOCs Current Sampling Event: 0

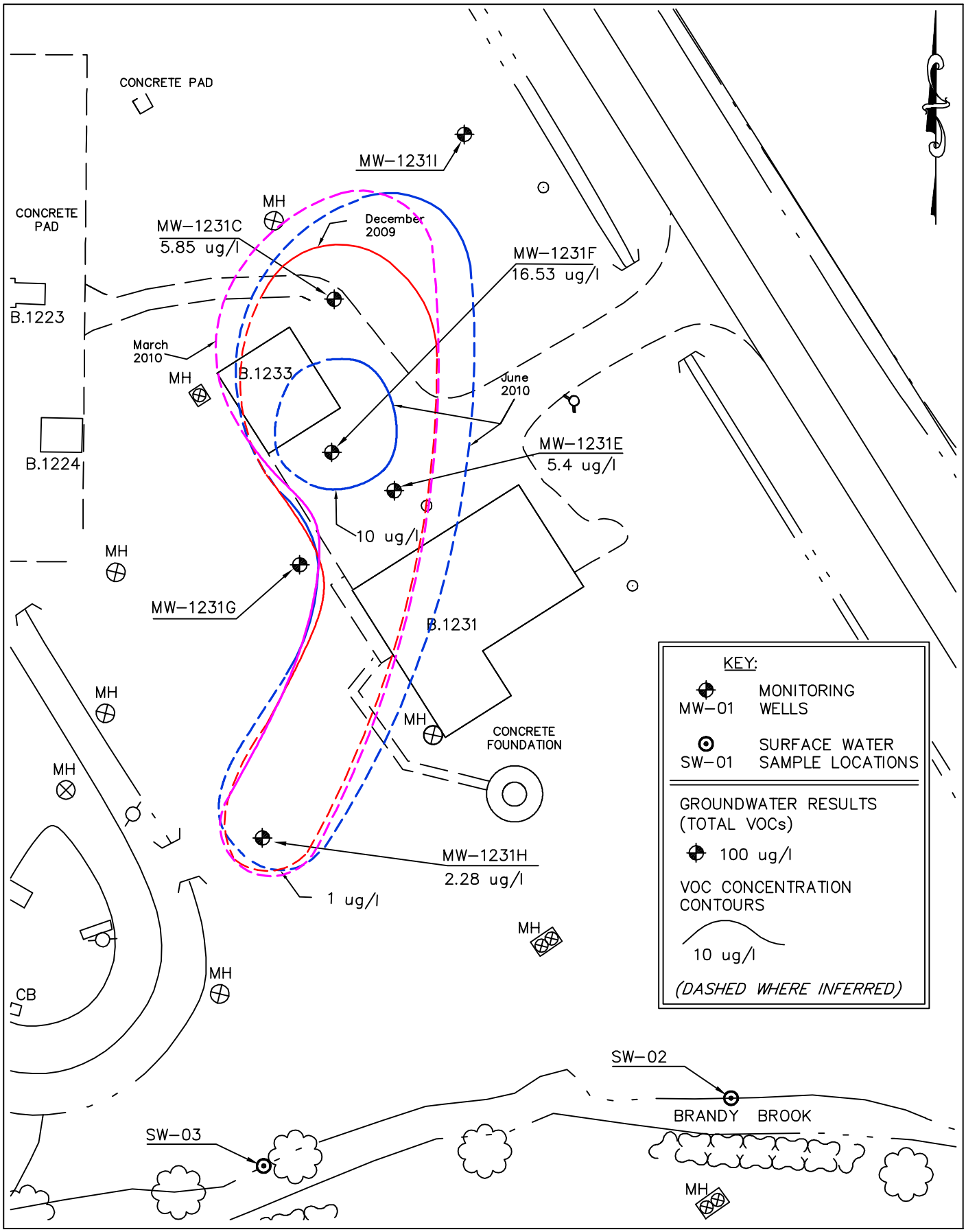
Date	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,4-Dichloro-benzene	2-Chloroethyl vinyl ether	Acetone	Acrolein	Acrylonitrate	Benzene	Bromo-dichloro-methane	Bromoform	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-chloro-methane	Dichloro-difluoro-methane	Ethyl-benzene	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Chloride
GW Stds ug/L	*5*	*5*	*1*	*5*	*5*	*3*	*0.6*	*1*	*3*	*3*	*1*	*50*	*5*	*5*	*1*	*5*	*50*	*5*	*5*	*5*	*5*	*7*	*5*	*5*	*0.4*	*50*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*0.4*	*5*	*5*	*2*
May-02																																						
Aug-02																																						
Nov-02																																						
Mar-03																																						
Jun-03																																						
Sep-03																																						
Dec-03																																						
Mar-04																																						
Sep-06																																						
Dec-06																																						
Apr-07																																						
Jun-07																																						
Oct-07																																						
Dec-07																																						
Mar-08																																						
Jun-08																																						
Sep-08																														1.1								
Dec-08																																						
Mar-09																																						
Jun-09																																						
Sep-09																																						
Dec-09																													0.93									
Mar-10																													12									
Jun-10																																						

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

ATTACHMENT 6

Volatile Organic Contour Maps

Verona Research Facility OM&M Update
June 2010 Sampling

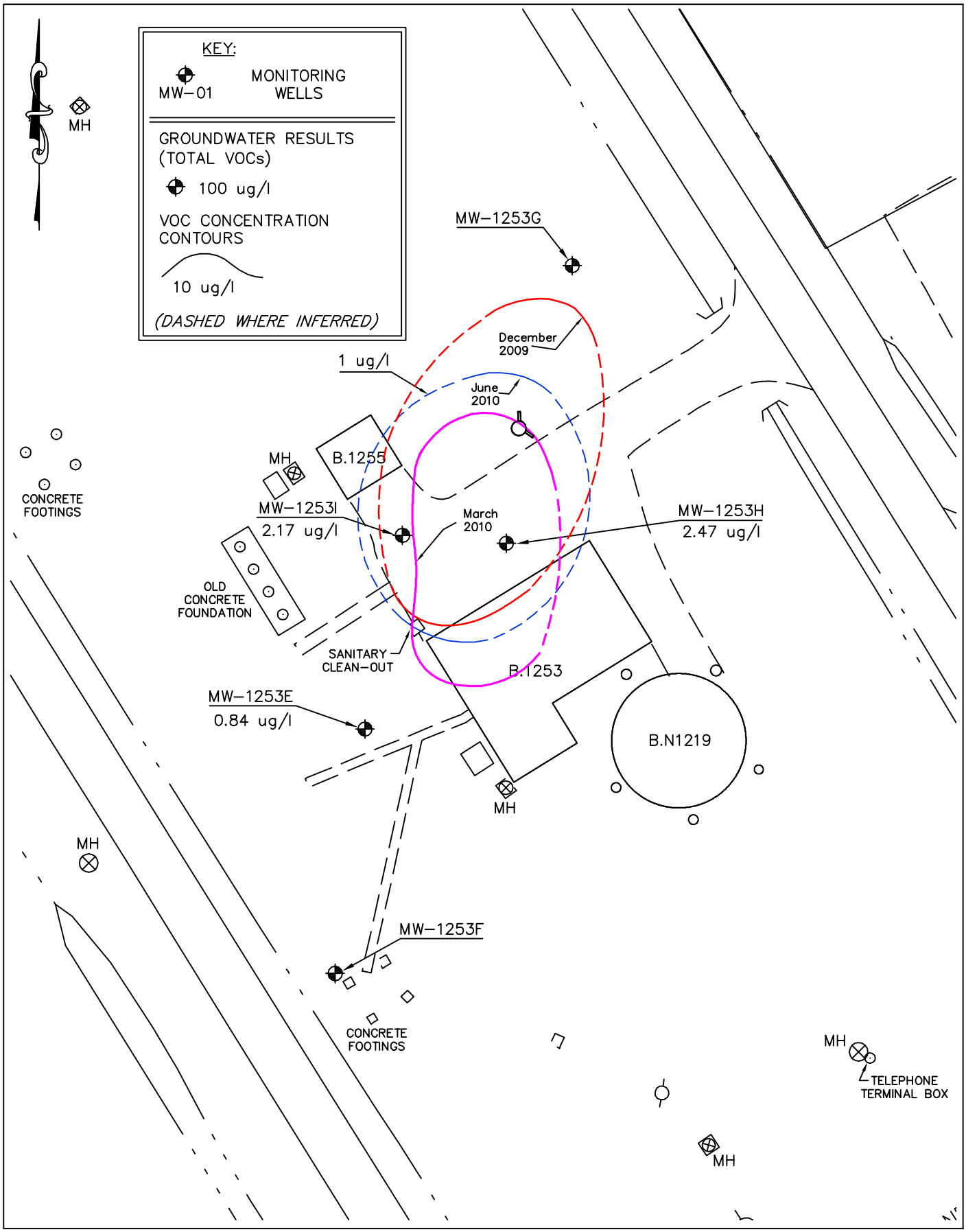


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VERONA RESEARCH FACILITY

VERONA MNA STUDY
JUNE 2010 GROUNDWATER TOTAL VOC CONCENTRATIONS
VERONA, NEW YORK

DATE:	AUGUST 2010
SCALE:	1" = 50'
DRAWN BY:	BCB
CHECKED BY:	GLA



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VERONA RESEARCH FACILITY

VERONA MNA STUDY
JUNE 2010 GROUNDWATER TOTAL VOC CONCENTRATIONS
VERONA, NEW YORK

DATE:	AUGUST 2010
SCALE:	1" = 50'
DRAWN BY:	BCB
CHECKED BY:	GLA

ATTACHMENT 7

Inorganic Analytical Results

Verona Research Facility OM&M Update
June 2010 Sampling

Verona Research Site Monitored Natural Attenuation

Total (Unfiltered) Metals Analytical Results
May 2002 -June 2010

Location ID MW-1231C

Date	Unfiltered Iron (Fe)	Unfiltered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02	1.2	0.32
Aug-02	0.32	0.34
Nov-02	2.7	1.02
Mar-03	0.25	0.266
Jun-03	0.633	0.461
Sep-03	0.31	0.27
Dec-03	0.192	0.329
Mar-04	0.099	0.133
Sep-06	0.2	0.19
Dec-06	0.27	0.12
Apr-07	0.095	0.066
Jun-07	0.26	0.14
Oct-07	0.034	2.48
Dec-07	0.322	0.595
Mar-08	0.034	0.306
Jun-08	0.461	0.479
Sep-08	0.274	0.925
Dec-08	0.061	0.176
Mar-09	0.061	0.0828
Jun-09	0.061	0.184
Sep-09	0.082	0.603
Dec-09	0.082	0.228
Mar-10	0.082	0.112
Jun-10	0.082	0.217

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Total (Unfiltered) Metals Analytical Results
May 2002 -June 2010

Location ID MW-1231E

Date	Unfiltered Iron (Fe)	Unfiltered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02	8.07	1.37
Aug-02	17	2.9
Nov-02	19.4	1.72
Mar-03	2.72	1.01
June-03	5.58	1.47
Sep-03	1.94	0.884
Dec-03	7.92	1.69
Mar-04	7.19	2.32
Sep-06	1.6	0.64
Dec-06	0.39	0.2
Apr-07	0.079	
Jun-07	0.13	0.33
Oct-07	0.863	4.84
Dec-07	0.217	0.0352
Mar-08	0.047	0.042
Jun-08	0.341	0.093
Sep-08	3.18	2.07
Dec-08	0.061	0.0144
Mar-09	0.122	0.0542
Jun-09	0.061	0.011
Sep-09	0.082	0.0045
Dec-09	0.082	0.0188
Mar-10	0.082	0.0081
Jun-10	0.082	0.0045

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Total (Unfiltered) Metals Analytical Results
May 2002 -June 2010

Location ID MW-1231F

Date	Unfiltered Iron (Fe)	Unfiltered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02	3.21	1.2
Aug-02	0.3	0.73
Nov-02	3.91	0.86
Mar-03	0.962	0.75
Jun-03	8.02	1.26
Sep-03	2.62	0.879
Dec-03	1.51	0.808
Mar-04	3.55	0.984
Sep-06	0.69	0.64
Dec-06	0.58	0.54
Apr-07	0.12	0.56
Jun-07	0.13	0.55
Oct-07	0.352	422
Dec-07	0.181	0.119
Mar-08	3.05	0.48
Jun-08	2.06	0.27
Sep-08	1.4	0.22
Dec-08	1.22	0.215
Mar-09	2.72	0.175
Jun-09	0.555	0.0998
Sep-09	0.131	0.302
Dec-09	0.412	0.0394
Mar-10	0.349	0.0275
Jun-10	0.284	0.0608

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Total (Unfiltered) Metals Analytical Results
May 2002 -June 2010

Location ID MW-1231G

Date	Unfiltered Iron (Fe)	Unfiltered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02	9.37	2.28
Aug-02	0.57	1.1
Nov-02	18	1.65
Mar-03	2.65	0.772
Jun-03	1.3	0.733
Sep-03	0.77	0.557
Dec-03		0.257
Mar-04	2.93	1.23
Sep-06	1.3	0.37
Dec-06	0.3	0.13
Apr-07	0.23	0.13
Jun-07	0.47	0.27
Oct-07	0.555	0.285
Dec-07	0.561	0.164
Mar-08	0.721	0.193
Jun-08	0.259	0.22
Sep-08	0.688	0.285
Dec-08	0.53	0.187
Mar-09	0.519	0.204
Jun-09	0.48	0.248
Sep-09	0.468	0.284
Dec-09	0.305	0.142
Mar-10	0.191	0.185
Jun-10	0.507	0.245

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Total (Unfiltered) Metals Analytical Results
May 2002 -June 2010

Location ID MW-1231H

Date	Unfiltered Iron (Fe)	Unfiltered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02	8.26	0.83
Aug-02	2.62	0.19
Nov-02	16.2	0.77
Mar-03	8.64	0.269
Jun-03	5.34	0.256
Sep-03	4.11	0.262
Dec-03	9.33	0.169
Mar-04	8.9	0.742
Sep-06	3	0.24
Dec-06	2	0.22
Apr-07	2.8	0.18
Jun-07	3	0.17
Oct-07	8.36	0.327
Dec-07	12.9	0.197
Mar-08	3.46	0.213
Jun-08	4.12	0.202
Sep-08	3.56	0.175
Dec-08	3.02	0.269
Mar-09	3.79	0.213
Jun-09	5.13	0.223
Sep-09	3.9	0.192
Dec-09	3.12	0.282
Mar-10	3.74	0.226
Jun-10	3.93	0.196

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Total (Unfiltered) Metals Analytical Results
May 2002 -June 2010

Location ID MW-1231I

Date	Unfiltered Iron (Fe)	Unfiltered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02	7.9	2.19
Aug-02	1.51	1.31
Nov-02	6.64	1.18
Mar-03	1.4	0.946
Jun-03	6.08	1.47
Sep-03	2.08	1.17
Dec-03	1.74	0.823
Mar-04	4.38	1.35
Sep-06	1.6	0.72
Dec-06	0.64	0.5
Apr-07	0.4	0.45
Jun-07	2.2	0.63
Oct-07	0.635	0.848
Dec-07	1.27	0.498
Mar-08	5.62	0.857
Jun-08	1.06	0.687
Sep-08	0.864	0.716
Dec-08	0.518	0.496
Mar-09	0.314	0.452
Jun-09	0.951	0.684
Sep-09	0.865	0.686
Dec-09	0.214	0.387
Mar-10	0.327	0.424
Jun-10	1.72	0.669

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Total (Unfiltered) Metals Analytical Results
May 2002 -June 2010

Location ID MW-1253E

Date	Unfiltered Iron (Fe)	Unfiltered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02	37.9	3.02
Aug-02	30.3	2.73
Nov-02	50.1	2.18
Mar-03	28.4	1.99
Jun-03	52.3	5.22
Sep-03	20.8	1.68
Dec-03	26.4	2.07
Mar-04	21.2	1.95
Sep-06	1.1	0.33
Dec-06	0.47	0.25
Apr-07	0.48	0.27
Jun-07	0.63	0.49
Oct-07	1.28	0.595
Dec-07	0.906	0.17
Mar-08	0.428	0.153
Jun-08	0.498	0.279
Sep-08	0.721	0.373
Dec-08	0.336	0.133
Mar-09	0.359	0.194
Jun-09	0.445	0.281
Sep-09	0.956	0.407
Dec-09	0.267	0.127
Mar-10	0.326	0.192
Jun-10	0.428	0.283

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Total (Unfiltered) Metals Analytical Results
May 2002 -June 2010

Location ID MW-1253F

Date	Unfiltered Iron (Fe)	Unfiltered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02	9.86	1.61
Aug-02	24.8	3.55
Nov-02	6.6	5.54
Mar-03	0.884	0.104
Jun-03	15.9	2.46
Sep-03	0.815	0.347
Dec-03	1.32	0.114
Mar-04	14.9	2.76
Sep-06	0.19	0.17
Dec-06	0.12	0.044
Apr-07	0.08	0.23
Jun-07	0.05	0.23
Oct-07	0.222	0.12
Dec-07	0.589	0.0792
Mar-08	0.059	0.03
Jun-08	0.061	0.088
Sep-08	0.061	0.095
Dec-08	0.061	0.0335
Mar-09	0.061	0.0427
Jun-09	0.061	0.0948
Sep-09	0.082	0.103
Dec-09	0.082	0.0871
Mar-10	0.082	0.0499
Jun-10	0.082	0.0566

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Total (Unfiltered) Metals Analytical Results
May 2002 -June 2010

Location ID MW-1253G

Date	Unfiltered Iron (Fe)	Unfiltered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02	31.9	3.2
Aug-02	17	1.86
Nov-02	44.1	1.69
Mar-03	16.7	1.31
Jun-03	18.2	2.11
Sep-03	43.4	5.98
Dec-03	11.3	1.38
Mar-04	6.07	0.838
Sep-06	0.96	0.19
Dec-06	0.35	0.17
Apr-07	0.22	0.18
Jun-07	1.2	0.21
Oct-07	0.765	0.17
Dec-07	0.474	0.0967
Mar-08	0.284	0.134
Jun-08	0.611	0.253
Sep-08	1.46	0.299
Dec-08	0.399	0.331
Mar-09	0.419	0.366
Jun-09	1.24	0.36
Sep-09	1.57	0.396
Dec-09	0.472	0.358
Mar-10	0.286	0.393
Jun-10	0.841	0.496

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Total (Unfiltered) Metals Analytical Results
May 2002 -June 2010

Location ID MW-1253H

Date	Unfiltered Iron (Fe)	Unfiltered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02	7.39	1.85
Aug-02	7.14	1.5
Nov-02	6.19	1.64
Mar-03	13.2	1.91
Jun-03	5.64	1.61
Sep-03	5.32	1.49
Dec-03	7.11	2.05
Mar-04	8.94	2.32
Sep-06	4.3	1.9
Dec-06	4.8	2.3
Apr-07	5.3	2.2
Jun-07	5.5	2.6
Oct-07	0.396	4.86
Dec-07	0.414	8.87
Mar-08	0.286	7.01
Jun-08	0.163	1.91
Sep-08	0.719	2.58
Dec-08	0.267	2.93
Mar-09	0.459	3.86
Jun-09	0.759	2.25
Sep-09	0.527	2.53
Dec-09	0.499	2.52
Mar-10	0.816	3.41
Jun-10	1.06	2.96

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Total (Unfiltered) Metals Analytical Results
May 2002 -June 2010

Location ID MW-1253I

Date	Unfiltered Iron (Fe)	Unfiltered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02	20.6	2
Aug-02	0.48	0.45
Nov-02	14.3	1.02
Mar-03	2.97	0.84
Jun-03	5.06	0.923
Sep-03	1.96	0.813
Dec-03	1.56	0.591
Mar-04	2.79	0.765
Sep-06	0.93	0.97
Dec-06	0.49	0.44
Apr-07	0.39	0.75
Jun-07	0.3	0.59
Oct-07	2.03	3.02
Dec-07	0.919	0.52
Mar-08	0.799	1.11
Jun-08	0.459	0.865
Sep-08	0.702	1.22
Dec-08	0.43	1.02
Mar-09	0.326	1.31
Jun-09	0.453	1.03
Sep-09	0.465	0.745
Dec-09	0.401	0.649
Mar-10	0.284	1.1
Jun-10	0.458	0.941

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Total (Unfiltered) Metals Analytical Results
May 2002 -June 2010

Location ID SW-1

Date	Unfiltered Iron (Fe)	Unfiltered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02	0.91	0.13
Aug-02	0.51	0.08
Nov-02	0.51	0.08
Mar-03	0.272	0.022
Jun-03	1.39	0.379
Sep-03	3.7	1.1
Dec-03	0.37	0.047
Mar-04	0.243	
Sep-06	0.89	0.1
Dec-06	1.2	0.15
Apr-07	0.6	0.059
Jun-07	2.5	0.27
Oct-07	1.25	0.914
Dec-07	0.844	0.123
Mar-08	0.546	0.05
Jun-08	2.75	1.08
Sep-08	2.93	0.376
Dec-08	0.592	0.0576
Mar-09	0.692	0.0486
Jun-09	3.64	0.597
Sep-09	1.2	0.141
Dec-09	7.37	0.429
Mar-10	0.659	0.0546
Jun-10	2.75	0.479

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Total (Unfiltered) Metals Analytical Results
May 2002 -June 2010

Location ID SW-2

Date	Unfiltered Iron (Fe)	Unfiltered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02	1.05	0.27
Aug-02	0.84	0.08
Nov-02	0.53	0.13
Mar-03	0.05	0.02
Jun-03	2.1	0.427
Sep-03	1.98	0.605
Dec-03	0.493	0.131
Mar-04	0.252	
Sep-06	1.3	0.2
Dec-06	1.1	0.13
Apr-07	0.42	0.031
Jun-07	1.8	0.071
Oct-07	0.485	0.0787
Dec-07	0.818	0.127
Mar-08	0.52	0.042
Jun-08	2.77	0.425
Sep-08	2.38	0.261
Dec-08	0.457	0.0481
Mar-09	0.685	0.0619
Jun-09	2.99	0.244
Sep-09	0.913	0.0579
Dec-09	8.15	1.17
Mar-10	0.727	0.071
Jun-10	0.969	0.133

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Total (Unfiltered) Metals Analytical Results
May 2002 -June 2010

Location ID SW-3

Date	Unfiltered Iron (Fe)	Unfiltered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02	1.27	0.29
Aug-02	0.82	0.16
Nov-02	0.46	0.05
Mar-03	0.229	
Jun-03	1.75	0.171
Sep-03	2.55	0.75
Dec-03	0.508	0.119
Mar-04	2.55	0.499
Sep-06	1.4	0.27
Dec-06	1.2	0.18
Apr-07	0.49	0.034
Jun-07	1.7	0.13
Oct-07	0.997	0.443
Dec-07	12.8	3.29
Mar-08	0.533	0.046
Jun-08	2.8	0.148
Sep-08	3.95	0.572
Dec-08	0.648	0.114
Mar-09	0.759	0.0714
Jun-09	10.3	0.91
Sep-09	0.932	0.0419
Dec-09	3.75	1.11
Mar-10	0.697	0.0664
Jun-10	1.06	0.0942

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Dissolved (Filtered) Metals Analytical Results
May 2002 - June 2010

Location ID MW-1231C

Date	Filtered Iron (Fe)	Filtered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02		
Aug-02		
Nov-02		0.15
Mar-03		
Jun-03		0.07
Sep-03		0.195
Dec-03		
Mar-04		
Sep-06	0.092	0.057
Dec-06	0.16	0.025
Apr-07	0.068	0.04
Jun-07	0.035	0.041
Oct-07	0.343	0.915
Dec-07	0.251	0.565
Mar-08	0.026	0.358
Jun-08	0.061	0.376
Sep-08	0.061	0.865
Dec-08	0.061	0.125
Mar-09	0.061	0.0471
Jun-09	0.061	0.163
Sep-09	0.082	0.534
Dec-09	0.082	0.149
Mar-10	0.082	0.0993
Jun-10	0.082	0.198

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Dissolved (Filtered) Metals Analytical Results
May 2002 - June 2010

Location ID MW-1231E

Date	Filtered Iron (Fe)	Filtered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02		0.54
Aug-02		0.59
Nov-02		0.75
Mar-03		0.72
June-03		0.787
Sep-03		0.745
Dec-03		0.624
Mar-04		0.784
Sep-06	0.046	0.56
Dec-06	0.051	0.06
Apr-07	0.078	
Jun-07		0.27
Oct-07	0.417	2.24
Dec-07	0.186	0.0362
Mar-08	0.019	0.011
Jun-08	0.061	0.069
Sep-08	0.061	0.009
Dec-08	0.061	0.0044
Mar-09	0.061	0.0014
Jun-09	0.061	0.0061
Sep-09	0.082	0.0116
Dec-09	0.082	0.0045
Mar-10	0.082	0.0045
Jun-10	0.082	0.0051

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Dissolved (Filtered) Metals Analytical Results
May 2002 - June 2010

Location ID MW-1231F

Date	Filtered Iron (Fe)	Filtered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02		0.87
Aug-02		0.67
Nov-02		
Mar-03		0.65
Jun-03		0.639
Sep-03		0.691
Dec-03		0.581
Mar-04		0.603
Sep-06	0.045	0.61
Dec-06	0.045	0.48
Apr-07	0.047	0.42
Jun-07		0.49
Oct-07	0.365	904
Dec-07	0.158	0.0243
Mar-08	0.352	0.088
Jun-08	0.061	0.187
Sep-08	0.061	0.158
Dec-08	0.061	0.0051
Mar-09	0.061	0.007
Jun-09	0.061	0.0448
Sep-09	0.082	0.266
Dec-09	0.082	0.0056
Mar-10	0.082	0.0096
Jun-10	0.082	0.0183

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Dissolved (Filtered) Metals Analytical Results
May 2002 - June 2010

Location ID MW-1231G

Date	Filtered Iron (Fe)	Filtered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02		0.93
Aug-02		0.98
Nov-02		0.52
Mar-03		0.306
Jun-03		0.55
Sep-03		0.518
Dec-03		0.257
Mar-04		0.273
Sep-06	0.29	
Dec-06	0.05	0.12
Apr-07	0.058	0.12
Jun-07		0.25
Oct-07	0.585	0.395
Dec-07	0.322	0.151
Mar-08	0.072	0.176
Jun-08	0.061	0.205
Sep-08	0.086	0.267
Dec-08	0.061	0.115
Mar-09	0.0635	0.193
Jun-09	0.0775	0.245
Sep-09	0.082	0.263
Dec-09	0.082	0.127
Mar-10	0.082	0.172
Jun-10	0.0835	0.251

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Dissolved (Filtered) Metals Analytical Results
May 2002 - June 2010

Location ID MW-1231H

Date	Filtered Iron (Fe)	Filtered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02		0.19
Aug-02		
Nov-02		0.18
Mar-03		0.136
Jun-03		0.118
Sep-03		0.183
Dec-03		
Mar-04		0.14
Sep-06		0.22
Dec-06	0.046	0.23
Apr-07	0.052	0.17
Jun-07	0.032	0.16
Oct-07	0.584	0.244
Dec-07	1.22	0.149
Mar-08	0.863	0.198
Jun-08	0.217	0.182
Sep-08	0.418	0.171
Dec-08	0.814	0.204
Mar-09	0.72	0.184
Jun-09	0.405	0.176
Sep-09	0.158	0.171
Dec-09	0.956	0.261
Mar-10	0.234	0.197
Jun-10	0.311	0.179

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Dissolved (Filtered) Metals Analytical Results
May 2002 - June 2010

Location ID MW-1231I

Date	Filtered Iron (Fe)	Filtered Manganese (Mn)
GW Stds mg/L	*0.3*	*0.3*
May-02		1.15
Aug-02		1.15
Nov-02		0.92
Mar-03		0.71
Jun-03		1.01
Sep-03		0.876
Dec-03		0.587
Mar-04		
Sep-06	0.034	0.74
Dec-06	0.061	0.46
Apr-07	0.056	0.47
Jun-07	0.052	0.49
Oct-07	0.606	0.879
Dec-07	0.291	0.41
Mar-08	0.082	0.513
Jun-08	0.061	0.55
Sep-08	0.061	0.645
Dec-08	0.061	0.398
Mar-09	0.0885	0.4
Jun-09	0.116	0.637
Sep-09	0.0967	0.615
Dec-09	0.0904	0.375
Mar-10	0.168	0.428
Jun-10	0.082	0.607

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Dissolved (Filtered) Metals Analytical Results
May 2002 - June 2010

Location ID MW-1253E

Date	Filtered Iron (Fe)	Filtered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02		0.34
Aug-02		0.37
Nov-02		0.23
Mar-03		0.12
Jun-03		0.23
Sep-03		0.241
Dec-03		0.227
Mar-04		0.286
Sep-06	0.043	0.33
Dec-06	0.09	0.2
Apr-07	0.11	0.26
Jun-07	0.15	0.4
Oct-07	0.523	0.59
Dec-07	0.251	0.131
Mar-08	0.119	0.142
Jun-08	0.061	0.242
Sep-08	0.201	0.147
Dec-08	0.178	0.12
Mar-09	0.105	0.189
Jun-09	0.0809	0.285
Sep-09	0.168	0.372
Dec-09	0.0993	0.12
Mar-10	0.0998	0.188
Jun-10	0.0953	0.281

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Dissolved (Filtered) Metals Analytical Results
May 2002 - June 2010

Location ID MW-1253F

Date	Filtered Iron (Fe)	Filtered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02		0.6
Aug-02		0.49
Nov-02		0.23
Mar-03		0.038
Jun-03		0.165
Sep-03		
Dec-03		0.027
Mar-04		0.152
Sep-06		0.16
Dec-06	0.075	0.029
Apr-07	0.087	0.03
Jun-07	0.074	0.22
Oct-07	0.502	0.093
Dec-07	0.332	0.037
Mar-08	0.045	0.025
Jun-08	0.061	0.081
Sep-08	0.061	0.352
Dec-08	0.061	0.0285
Mar-09	0.061	0.0399
Jun-09	0.061	0.0875
Sep-09	0.082	0.0728
Dec-09	0.082	0.0724
Mar-10	0.082	0.0454
Jun-10	0.082	0.0567

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Dissolved (Filtered) Metals Analytical Results
May 2002 - June 2010

Location ID MW-1253G

Date	Filtered Iron (Fe)	Filtered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02		0.29
Aug-02		0.43
Nov-02		0.21
Mar-03		0.14
Jun-03		0.128
Sep-03		0.213
Dec-03		0.055
Mar-04		0.055
Sep-06		0.14
Dec-06	0.064	0.15
Apr-07	0.087	0.18
Jun-07	0.04	0.2
Oct-07	0.534	0.164
Dec-07	0.346	0.0961
Mar-08	0.092	0.123
Jun-08	0.071	0.263
Sep-08	0.301	0.309
Dec-08	0.175	0.298
Mar-09	0.116	0.368
Jun-09	0.213	0.32
Sep-09	0.238	0.356
Dec-09	0.181	0.333
Mar-10	0.135	0.356
Jun-10	0.25	0.477

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Dissolved (Filtered) Metals Analytical Results
May 2002 - June 2010

Location ID MW-1253H

Date	Filtered Iron (Fe)	Filtered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02		1.47
Aug-02		
Nov-02		
Mar-03		1.57
Jun-03		
Sep-03		1.4
Dec-03		
Mar-04		
Sep-06	0.088	1.8
Dec-06	0.33	2
Apr-07	0.072	2
Jun-07	0.055	2.3
Oct-07	0.343	1.3
Dec-07	0.206	5.83
Mar-08	0.111	6.94
Jun-08	0.061	1.82
Sep-08	0.196	2.27
Dec-08	0.061	2.12
Mar-09	0.061	3.57
Jun-09	0.0776	2.01
Sep-09	0.082	2.27
Dec-09	0.0929	2.32
Mar-10	0.082	3.29
Jun-10	0.111	2.79

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Dissolved (Filtered) Metals Analytical Results
May 2002 - June 2010

Location ID MW-1253I

Date	Filtered Iron (Fe)	Filtered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02		0.58
Aug-02		
Nov-02		0.69
Mar-03		0.71
Jun-03		0.703
Sep-03	0.137	0.725
Dec-03		0.578
Mar-04		0.617
Sep-06		0.9
Dec-06	0.14	0.45
Apr-07	0.073	0.84
Jun-07	0.035	0.56
Oct-07	0.485	0.754
Dec-07	0.534	0.592
Mar-08	0.153	0.928
Jun-08	0.061	0.999
Sep-08	0.2	1.18
Dec-08	0.111	0.875
Mar-09	0.103	1.26
Jun-09	0.0827	0.977
Sep-09	0.082	0.668
Dec-09	0.106	0.519
Mar-10	0.189	1.12
Jun-10	0.101	0.969

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Dissolved (Filtered) Metals Analytical Results
May 2002 - June 2010

Location ID SW-1

Date	Filtered Iron (Fe)	Filtered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02		
Aug-02		
Nov-02		
Mar-03		
Jun-03		
Sep-03		
Dec-03		
Mar-04		
Sep-06	0.39	
Dec-06	1.6	0.072
Apr-07	0.37	0.033
Jun-07	1.6	0.17
Oct-07	0.359	0.0612
Dec-07	0.56	0.106
Mar-08	0.403	0.049
Jun-08	1.79	0.927
Sep-08	1.67	0.177
Dec-08	0.277	0.0413
Mar-09	0.357	0.0546
Jun-09	1.75	0.158
Sep-09	0.451	0.0293
Dec-09	0.494	0.0929
Mar-10	0.398	0.0781
Jun-10	1.71	0.0451

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Dissolved (Filtered) Metals Analytical Results
May 2002 - June 2010

Location ID SW-2

Date	Filtered Iron (Fe)	Filtered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02		
Aug-02		
Nov-02		
Mar-03		
Jun-03		
Sep-03		
Dec-03		
Mar-04		
Sep-06	0.23	
Dec-06	0.8	0.04
Apr-07	0.36	0.032
Jun-07	0.49	
Oct-07	0.452	0.0585
Dec-07	0.528	0.0952
Mar-08	0.369	0.041
Jun-08	1.95	0.153
Sep-08	1.18	0.099
Dec-08	0.292	0.0419
Mar-09	0.398	0.0544
Jun-09	1.32	0.139
Sep-09	0.391	0.0125
Dec-09	0.314	0.228
Mar-10	0.387	0.0527
Jun-10	0.598	0.0172

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Dissolved (Filtered) Metals Analytical Results
May 2002 - June 2010

Location ID SW-3

Date	Filtered Iron (Fe)	Filtered Manganese (Mn)
GW Stds mg/L	***0.3***	***0.3***
May-02		
Aug-02		
Nov-02		
Mar-03		
Jun-03		
Sep-03		
Dec-03		
Mar-04		
Sep-06	0.18	
Dec-06	0.65	0.035
Apr-07	0.38	0.032
Jun-07	0.61	
Oct-07	0.375	0.0568
Dec-07	0.402	0.0724
Mar-08	0.352	0.034
Jun-08	1.77	0.054
Sep-08	1.24	0.146
Dec-08	0.255	0.0486
Mar-09	0.405	0.0574
Jun-09	1.36	0.0339
Sep-09	0.409	0.0069
Dec-09	0.296	0.0194
Mar-10	0.397	0.0619
Jun-10	0.639	0.0188

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Natural Attenuation Parameters
Analytical Results May 2002 - June 2010

Location ID MW-1231C

Date	Nitrate	Sulfate	Carbon Dioxide	Alkalinity (CaCO3)	Total Dissolved Solids	Ethane	Ethene
GW Stds mg/L	*10*	*250*					
May-02	0.03	25	44	440	495		
Aug-02	0.19	21	86	430	402		
Nov-02	0.16	30	87	435	458		
Mar-03	0.22	24	44	360	512		
Jun-03	0.04	24	49	390	450		
Sep-03	0.04	26	63	500	415		
Dec-03		21	29	290	282		
Mar-04	0.04	21	32	320	322		
Sep-06		14.8		370	502		
Dec-06		14.4		450	357		
Apr-07		9.15		350	460		
Jun-07		9.59		340	300		
Oct-07		61	50	740	790		
Dec-07		16	49	400	390		
Mar-08	0.14	14	26	350	350		
Jun-08		17	44	420	390		
Sep-08		18	13	430	390		
Dec-08		14	110	380	290		
Mar-09	0.22	9.6	100	300	290		
Jun-09	0.021	10	97	300	360		
Sep-09	0.086	13	150	440	480		
Dec-09	0.1	15	48	380	370		
Mar-10	0.17	16	69	320	360		
Jun-10	0.13	11	160	400	390		

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Natural Attenuation Parameters
Analytical Results May 2002 - June 2010

Location ID MW-1231E

Date	Nitrate	Sulfate	Carbon Dioxide	Alkalinity (CaCO3)	Total Dissolved Solids	Ethane	Ethene
GW Stds mg/L	*10*	*250*					
May-02		38	47.7	400	542		
Aug-02		25	64	320	395		
Nov-02		22	63	340	582		
Mar-03	0.03	18	30	320	540		
June-03		16	40	400	448		
Sep-03		17	53	420	360		
Dec-03		19	32	320	295		
Mar-04		26	33	330	328		
Sep-06		11.9		320	388		
Dec-06		11		270	290		
Apr-07		11.3	13.7	200	455		
Jun-07		10.1		250	260		
Oct-07		32	64	410	420		
Dec-07		19	27	300	300		
Mar-08		12	10	290	240		
Jun-08		13	38	330	330		
Sep-08		19	22	310	330		
Dec-08		14	43	280	270		
Mar-09		13	33	200	220		
Jun-09	0.009	10	63	270	290		
Sep-09	0.036	24	120	350	270		
Dec-09	0.09	12.8	16	240	260		
Mar-10	0.029	14	45	180	380		
Jun-10	0.03	14	150	410	410		

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Natural Attenuation Parameters
Analytical Results May 2002 - June 2010

Location ID MW-1231F

Date	Nitrate	Sulfate	Carbon Dioxide	Alkalinity (CaCO3)	Total Dissolved Solids	Ethane	Ethene
GW Stds mg/L	*10*	*250*					
May-02		42	33.4	420	490		
Aug-02	0.04	25	61	385	360		
Nov-02		21	46	380	535		
Mar-03	0.04	24	25	315	450		
Jun-03		25	40	400	422		
Sep-03		21	42	420	325		
Dec-03		19	25	320	252		
Mar-04		19	23	287	292		
Sep-06		7.31		280	587		
Dec-06		6.47		280	300		
Apr-07		7.94	43.3	270	415		
Jun-07		8.09		280	310		
Oct-07	0.29	91	63	1000	2000		
Dec-07		30	15	450	440		
Mar-08		97		1500	1900		
Jun-08		13	11	310	320		
Sep-08		13	13	300	270		
Dec-08	0.2	14	21	210	250		
Mar-09	0.2	11	20	170	190		
Jun-09	0.35	8.9	44	250	260		
Sep-09		11	65	290	330		
Dec-09	0.08	13.4	11	240	210		
Mar-10	0.17	15	21	200	45		
Jun-10		12	40	360	300		

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Natural Attenuation Parameters
Analytical Results May 2002 - June 2010

Location ID MW-1231G

Date	Nitrate	Sulfate	Carbon Dioxide	Alkalinity (CaCO3)	Total Dissolved Solids	Ethane	Ethene
GW Stds mg/L	*10*	*250*					
May-02		44	41.2	480	725		
Aug-02		77	83	480	720		
Nov-02		39	82	480	732		
Mar-03	0.04	19	55	480	600		
Jun-03		15	53	440	540		
Sep-03		30	97	650	550		
Dec-03		14	57	450	405		
Mar-04		11	54	430	410		
Sep-06		8.41		400	460		
Dec-06				440	438		
Apr-07			41	420	505		
Jun-07				430	427		
Oct-07		17	71	480	460		
Dec-07		11	84	460	440		
Mar-08		7.1	98	480	420		
Jun-08		6.5	110	480	440		
Sep-08		7.1	44	490	440		
Dec-08		7.7	240	620	540		
Mar-09		7.2	200	390	420		
Jun-09	0.028	8.5	320	480	470		
Sep-09		8.6	300	480	500		
Dec-09		7.15	78	400	450		
Mar-10	0.11	6.6	88	350	450		
Jun-10	0.026	6.6	220	500	460		

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Natural Attenuation Parameters
Analytical Results May 2002 - June 2010

Location ID MW-1231H

Date	Nitrate	Sulfate	Carbon Dioxide	Alkalinity (CaCO3)	Total Dissolved Solids	Ethane	Ethene
GW Stds mg/L	*10*	*250*					
May-02		45	55.4	440	432		
Aug-02		21	72	390	395		
Nov-02		10	76	390	542		
Mar-03	0.04	12	44	360	520		
Jun-03		17	53	420	435		
Sep-03		17	81	510	420		
Dec-03		12	56	350	325		
Mar-04	0.09	12	52	330	350		
Sep-06		9.9		360	435		
Dec-06		5.89		350	410		
Apr-07			49.7	360	390		
Jun-07				360	390		
Oct-07		5.8	60	390	370		
Dec-07		6.5	57	360	360		
Mar-08		8.6	41	350	360		
Jun-08		7.3	55	420	66		
Sep-08		8.5	34	350	350		
Dec-08		8.1	210	710	410		
Mar-09		7.1	130	360	370		
Jun-09	0.053	8.4	220	380	390		
Sep-09		8.4	180	400	350		
Dec-09	0.05	6.48	63	380	380		
Mar-10	0.13	6.3	89	300	390		
Jun-10		6.3	230	600	410		

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Natural Attenuation Parameters
Analytical Results May 2002 - June 2010

Location ID MW-1231I

Date	Nitrate	Sulfate	Carbon Dioxide	Alkalinity (CaCO3)	Total Dissolved Solids	Ethane	Ethene
GW Stds mg/L	*10*	*250*					
May-02		198	65.5	480	722		
Aug-02	0.03	26	107	425	478		
Nov-02		54	85	472	608		
Mar-03	0.04	31	50	435	608		
Jun-03		18	71	460	505		
Sep-03		21	55	440	480		
Dec-03	0.06	30	55	440	415		
Mar-04		23	55	440	432		
Sep-06		7.57		430	500		
Dec-06		6		440	475		
Apr-07			25.1	480	528		
Jun-07		5.71		460	445		
Oct-07		6.8	89	470	470		
Dec-07		5.7	89	510	480		
Mar-08			80	580	510		
Jun-08		6.3	91	560	51		
Sep-08		6.5	14	520	480		
Dec-08			230	600	500		
Mar-09			190	430	470		
Jun-09	0.036	6.7	240	470	540		
Sep-09		3.6	190	460	460		
Dec-09	0.05	4.38	67	410	450		
Mar-10	0.022	4.2	120	450	430		
Jun-10		5.8	98	210	530		

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Natural Attenuation Parameters
Analytical Results May 2002 - June 2010

Location ID MW-1253E

Date	Nitrate	Sulfate	Carbon Dioxide	Alkalinity (CaCO3)	Total Dissolved Solids	Ethane	Ethene
GW Stds mg/L	*10*	*250*					
May-02		28	88.6	580	522		
Aug-02		25	165	1080	525		
Nov-02		28	75	420	622		
Mar-03		32	64	435	578		
Jun-03		28	67	450	548		
Sep-03		14	124	720	478		
Dec-03		20	67	420	327		
Mar-04		23	65	410	415		
Sep-06		5.17		380	402		
Dec-06				400	940		
Apr-07			61.5	390	405		
Jun-07				400	445		
Oct-07		10	92	440	400		
Dec-07		6.3	58	380	350		
Mar-08			43	350	300		
Jun-08		5.5	38	300	370		
Sep-08		7	160	410	410		
Dec-08		5	130	410	330		
Mar-09			130	310	370		
Jun-09	0.02	3.3	260	420	400		
Sep-09	0.0082	11	160	430	420		
Dec-09	0.05	3.3	33	450	400		
Mar-10	0.036	3.8	250	330	680		
Jun-10		3.9	220	350	430		

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Natural Attenuation Parameters
Analytical Results May 2002 - June 2010

Location ID MW-1253F

Date	Nitrate	Sulfate	Carbon Dioxide	Alkalinity (CaCO3)	Total Dissolved Solids	Ethane	Ethene
GW Stds mg/L	*10*	*250*					
May-02		54	94.6	520	600		
Aug-02		43	154	660	575		
Nov-02		81	178	680	852		
Mar-03	0.04	26	61	405	538		
Jun-03		23	105	590	645		
Sep-03		38	148	620	540		
Dec-03		16	86	430	380		
Mar-04		16	78	390	378		
Sep-06		5.63		430	475		
Dec-06				420	42		
Apr-07			20.5	340	390		
Jun-07				420	558		
Oct-07		6.9	110	440	420		
Dec-07		9.9	120	480	440		
Mar-08		8.5	65	420	320		
Jun-08		8.6	69	380	440		
Sep-08		7.7	320	540	470		
Dec-08		5.7	730	420	340		
Mar-09	0.31	5.9	170	350	370		
Jun-09		5.1	250	390	380		
Sep-09		4.5	310	490	450		
Dec-09	0.06	4.56	110	520	520		
Mar-10	0.0085	6.2	410	390	420		
Jun-10	0.082	6.9	370	440	470		

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Natural Attenuation Parameters
Analytical Results May 2002 - June 2010

Location ID MW-1253G

Date	Nitrate	Sulfate	Carbon Dioxide	Alkalinity (CaCO3)	Total Dissolved Solids	Ethane	Ethene
GW Stds mg/L	*10*	*250*					
May-02		30	86.9	560	505		
Aug-02	0.05	44	122	500	518		
Nov-02		27	99	550	612		
Mar-03		23	46	370	502		
Jun-03		19	61	500	525		
Sep-03		25	103	650	472		
Dec-03		17	42	330	305		
Mar-04		14	42	330	315		
Sep-06				420	455		
Dec-06				370	410		
Apr-07			52.4	440	498		
Jun-07				450	445		
Oct-07		6	750	470	460		
Dec-07			86	450	430		
Mar-08			64	440	370		
Jun-08			54	410	420		
Sep-08			170	510	430		
Dec-08			82	470	380		
Mar-09			320	400	430		
Jun-09		2	340	570	460		
Sep-09	0.0068	2	250	470	480		
Dec-09	0.05	3.27	82	480	450		
Mar-10	0.15	2.5	390	410	400		
Jun-10	0.098	2.2	300	480	470		

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Natural Attenuation Parameters
Analytical Results May 2002 - June 2010

Location ID MW-1253H

Date	Nitrate	Sulfate	Carbon Dioxide	Alkalinity (CaCO3)	Total Dissolved Solids	Ethane	Ethene
GW Stds mg/L	*10*	*250*					
May-02		54	63.1	420	542		
Aug-02		28	60	375	492		
Nov-02		45	41	240	750		
Mar-03	0.03	31	60	430	668		
Jun-03		25	71	460	515		
Sep-03		51	70	640	682		
Dec-03		32	82	410	435		
Mar-04		39	82	410	492		
Sep-06		25.8		400	488		
Dec-06		21.9		390	472		
Apr-07		24.8	45.5	430	552		
Jun-07		35.4		420	472		
Oct-07		210	69	590	870		
Dec-07		140	48	340	610		
Mar-08		81	48	430	480		
Jun-08		13	22	270	310		
Sep-08		33	53	310	360		
Dec-08		25	26	270	240		
Mar-09		28	43	250	310		
Jun-09	0.058	11	90	290	340		
Sep-09		52	100	300	420		
Dec-09	0.05	26.2	25	310	300		
Mar-10	0.03	24	100	230	350		
Jun-10		17	160	430	360		

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Natural Attenuation Parameters
Analytical Results May 2002 - June 2010

Location ID MW-1253I

Date	Nitrate	Sulfate	Carbon Dioxide	Alkalinity (CaCO3)	Total Dissolved Solids	Ethane	Ethene
GW Stds mg/L	*10*	*250*					
May-02		72	96.5	540	632		
Aug-02		36	122	525	582		
Nov-02		40	134	620	732		
Mar-03	0.04	36	81	465	702		
Jun-03		39	79	440	615		
Sep-03		34	141	610	587		
Dec-03		35	92	460	412		
Mar-04		35	86	430	438		
Sep-06		20.5		390	443		
Dec-06		15.5		390	427		
Apr-07		11.9	18.2	400	525		
Jun-07		14.4		410	418		
Oct-07		16	110	400	450		
Dec-07		17	99	420	420		
Mar-08		15	64	440	390		
Jun-08		15	55	380	430		
Sep-08		14	150	460	390		
Dec-08		13	120	530	330		
Mar-09		14	140	370	410		
Jun-09	0.0064	17	150	300	400		
Sep-09		14	200	420	420		
Dec-09	0.2	16.2	84	520	380		
Mar-10	0.56	14	330	410	420		
Jun-10		13	310	580	360		

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Natural Attenuation Parameters
Analytical Results May 2002 - June 2010

Location ID SW-1

Date	Nitrate	Sulfate	Carbon Dioxide	Alkalinity (CaCO3)	Total Dissolved Solids	Ethane	Ethene
GW Stds mg/L	*10*	*250*					
May-02	0.07	2.8	13	130	238		
Aug-02	1.1	67	12	116	390		
Nov-02	0.08	46	46	145	360		
Mar-03	0.21	6	19	75	208		
Jun-03	0.42	5	26	165	258		
Sep-03		6	38	300	430		
Dec-03	0.08	9	21	130	190		
Mar-04	0.09	11	15	150	345		
Sep-06				220	375		
Dec-06				130	228		
Apr-07			13.7	110	268		
Jun-07	0.222	19.5		160	318		
Oct-07		12	17	240	310		
Dec-07		17	35	150	360		
Mar-08	1		17	95	160		
Jun-08			13	190	370		
Sep-08			39	230	420		
Dec-08			26	120	98		
Mar-09			27	80	150		
Jun-09	0.049	0.67	75	230	270		
Sep-09	0.071	20	61	230	260		
Dec-09	0.06	4.58	43	230	230		
Mar-10	0.029	1.6	64	130	190		
Jun-10	0.073	0.9	170	670	260		

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Natural Attenuation Parameters
Analytical Results May 2002 - June 2010

Location ID SW-2

Date	Nitrate	Sulfate	Carbon Dioxide	Alkalinity (CaCO3)	Total Dissolved Solids	Ethane	Ethene
GW Stds mg/L	*10*	*250*					
May-02	0.2	2.2	20.2	160	312		
Aug-02	0.09	41	14	140	332		
Nov-02		44	34	135	368		
Mar-03	0.23	6	14	70	182		
Jun-03	0.62		20	125	260		
Sep-03		24	35	280	420		
Dec-03	0.08	9	19	120	198		
Mar-04	0.21	11	18	140	352		
Sep-06	2.5	8.35		160	355		
Dec-06				140	205		
Apr-07			11.4	110	215		
Jun-07	0.204	37.5		140	337		
Oct-07		25		240	290		
Dec-07		17	33	160	340		
Mar-08	0.19		12	84	160		
Jun-08				190	350		
Sep-08			20	240	420		
Dec-08			27	140	100		
Mar-09			40	110	150		
Jun-09	0.013	0.85	21	170	240		
Sep-09	0.036	20	58	200	240		
Dec-09	0.14	5.17	36	200	230		
Mar-10	0.031	1.9	33	120	180		
Jun-10	0.11	1.5		210	270		

Analytical results with Non Detect (ND) or Below Detectable Limits (BDL) are recognized as null values to maintain the intergity of the database.

Verona Research Site Monitored Natural Attenuation

Natural Attenuation Parameters
Analytical Results May 2002 - June 2010

Location ID SW-3

Date	Nitrate	Sulfate	Carbon Dioxide	Alkalinity (CaCO3)	Total Dissolved Solids	Ethane	Ethene
GW Stds mg/L	*10*	*250*					
May-02	0.07	2.2	18.9	150	268		
Aug-02	0.1	43	15	150	312		
Nov-02	0.08	45	43	355	135		
Mar-03	0.21	6	14	70	210		
Jun-03	0.06		17	110	252		
Sep-03		11	43	340	410		
Dec-03	0.09	9	21	130	205		
Mar-04		11	24	150	385		
Sep-06	0.62	8.22		170	350		
Dec-06	0.593			130	222		
Apr-07			18.2	100	310		
Jun-07		22.7		150	260		
Oct-07		14	12	210	280		
Dec-07		15	41	170	340		
Mar-08				91	160		
Jun-08				210	330		
Sep-08			35	240	400		
Dec-08			26	150	110		
Mar-09			31	90	140		
Jun-09	0.008	0.61		140	240		
Sep-09	0.012	21	49	190	250		
Dec-09	0.17	5.27	33	190	190		
Mar-10	0.026	1.9	40	120	180		
Jun-10		1.8		210	260		

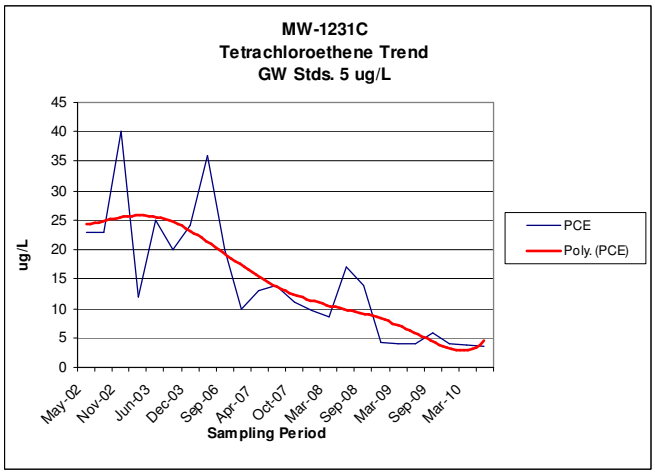
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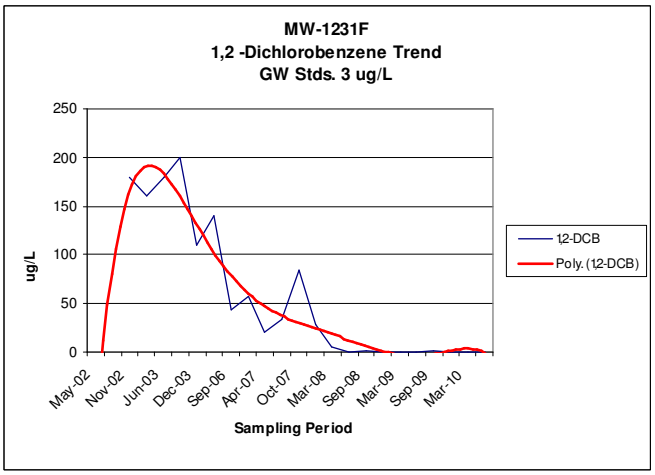
ATTACHMENT 8

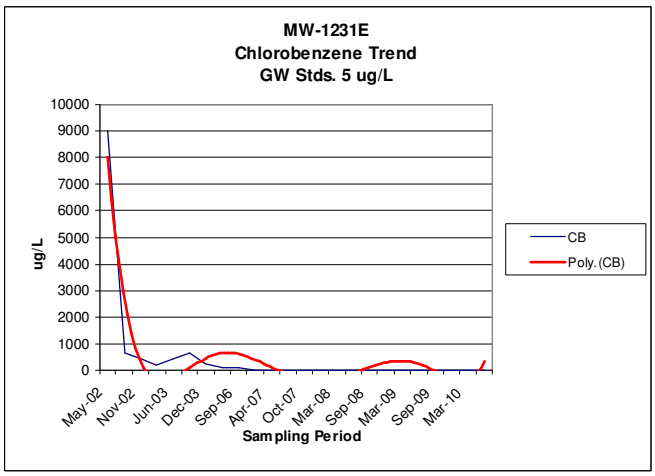
Trend Analyses

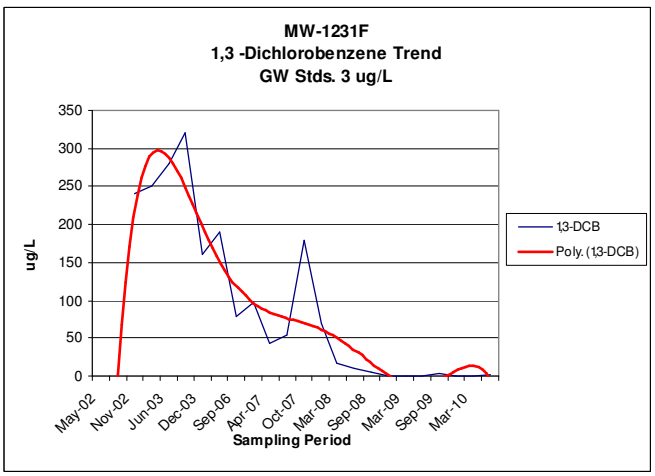
Verona Research Facility OM&M Update
June 2010 Sampling

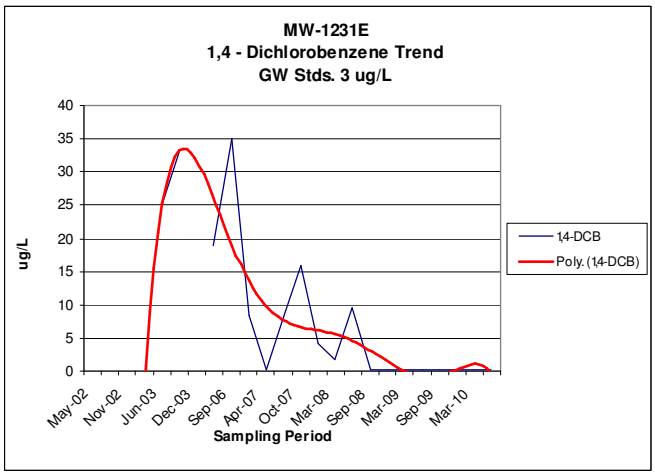
Verona Research Site Monitored Natural Attenuation
Trend Analyses
June 2010 Sampling

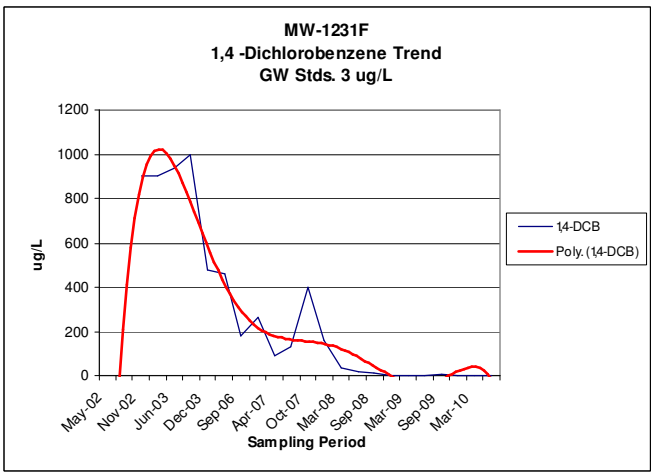






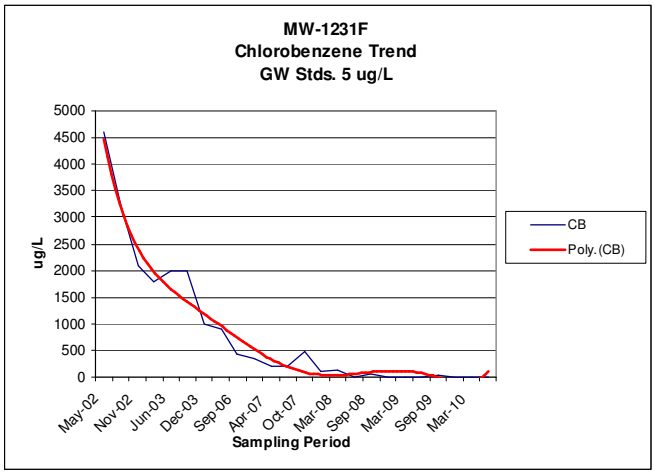


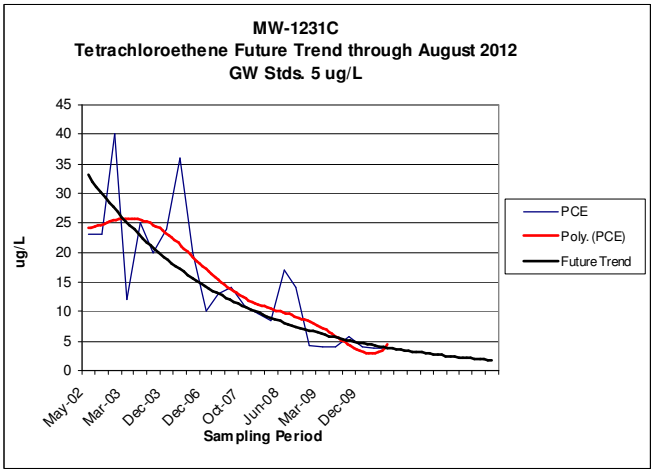


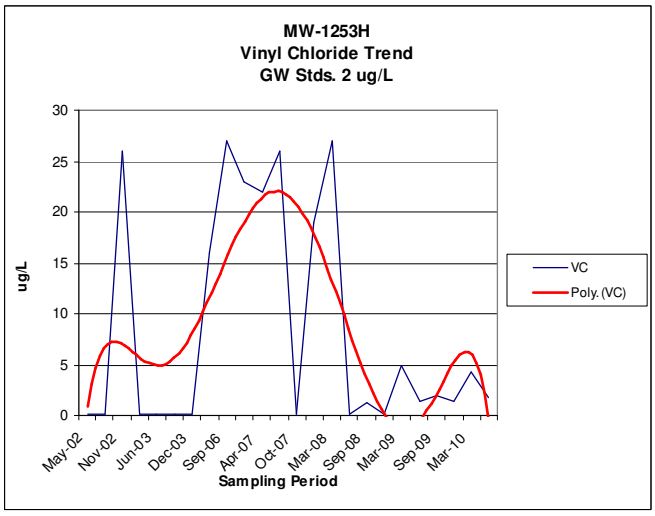


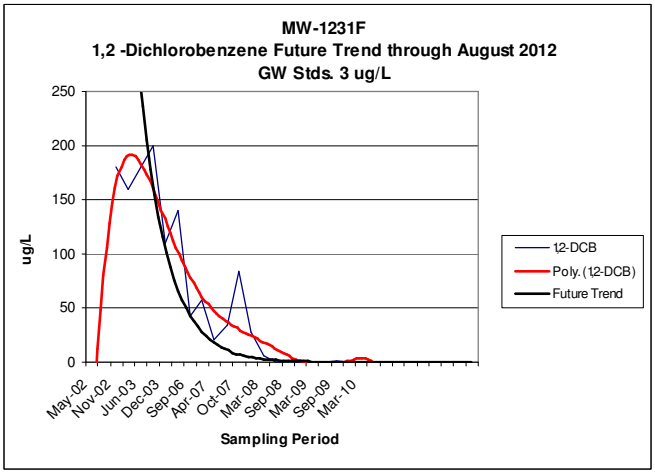
Verona Research Site Monitored Natural Attenuation
Trend Analyses
June 2010 Sampling

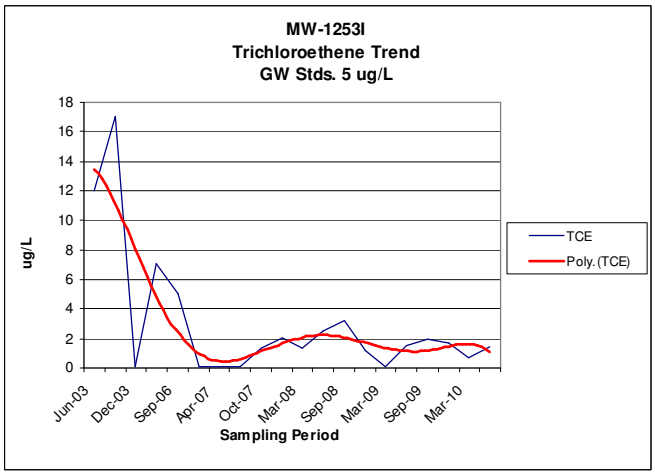
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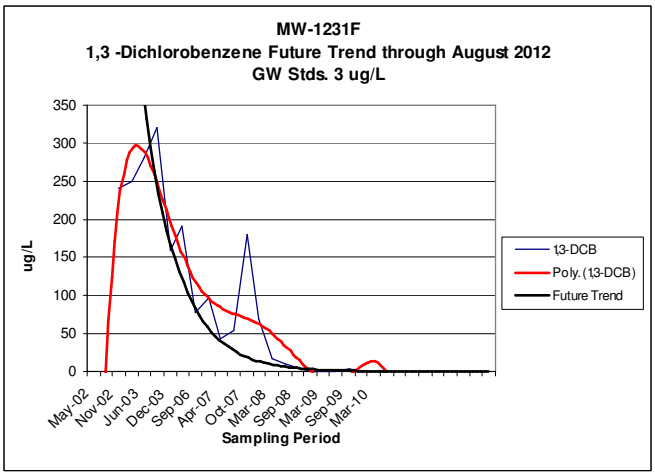






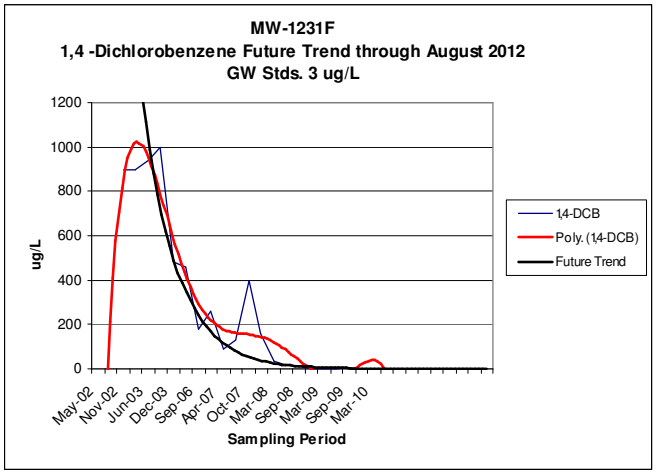


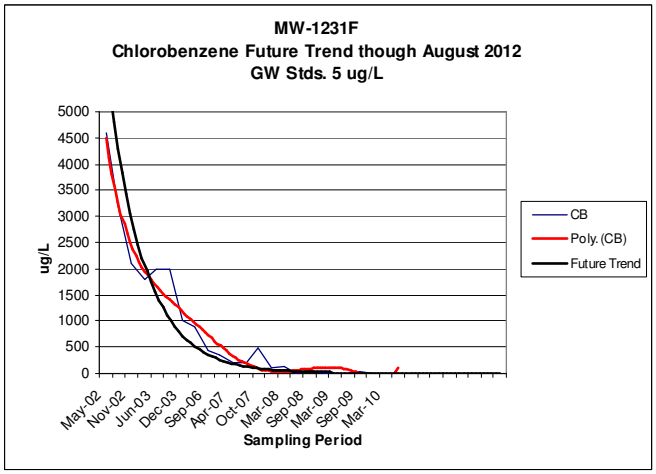


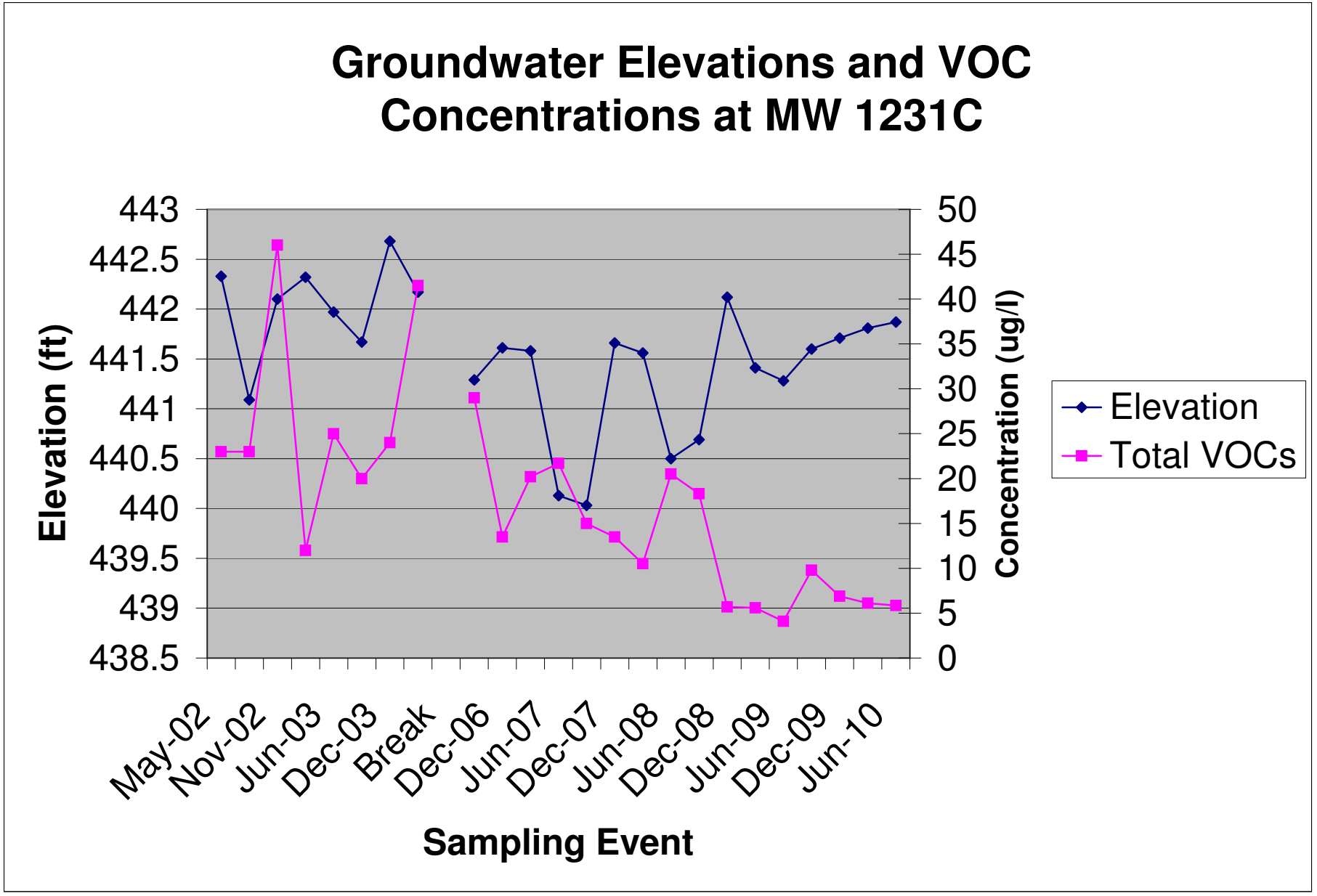


Verona Research Site Monitored Natural Attenuation
Trend Analyses
June 2010 Sampling

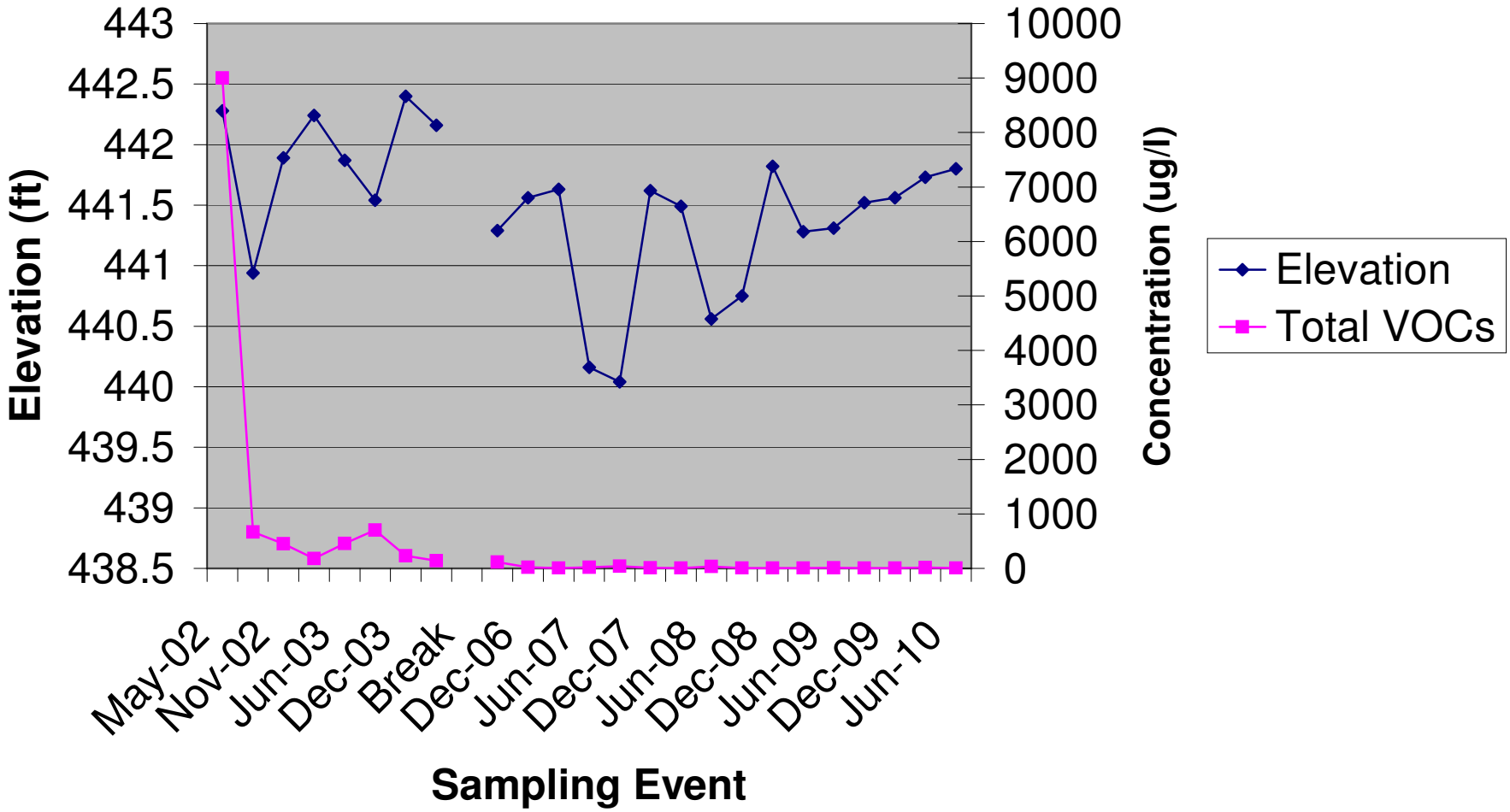
Select Future Trends cont.



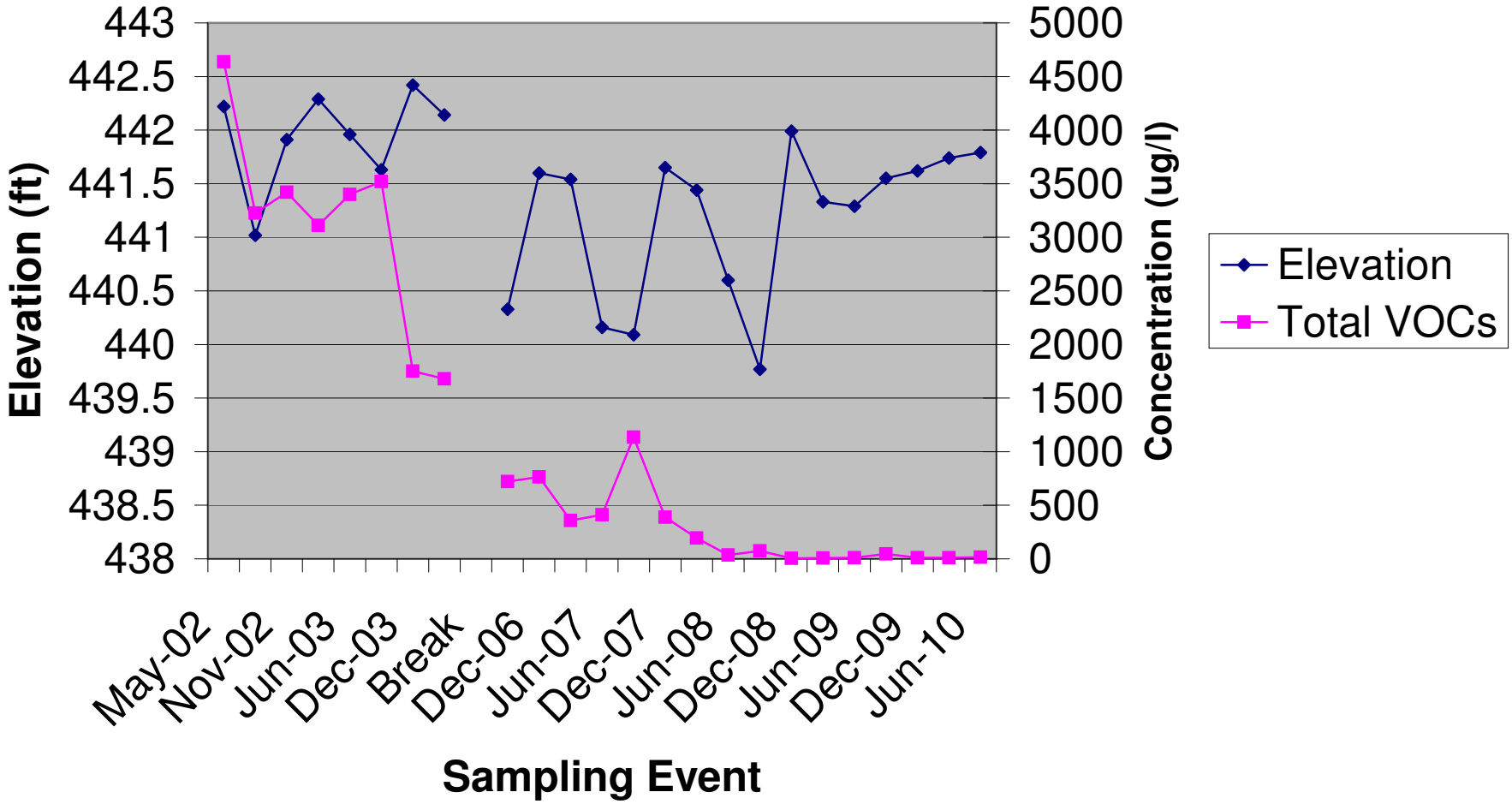


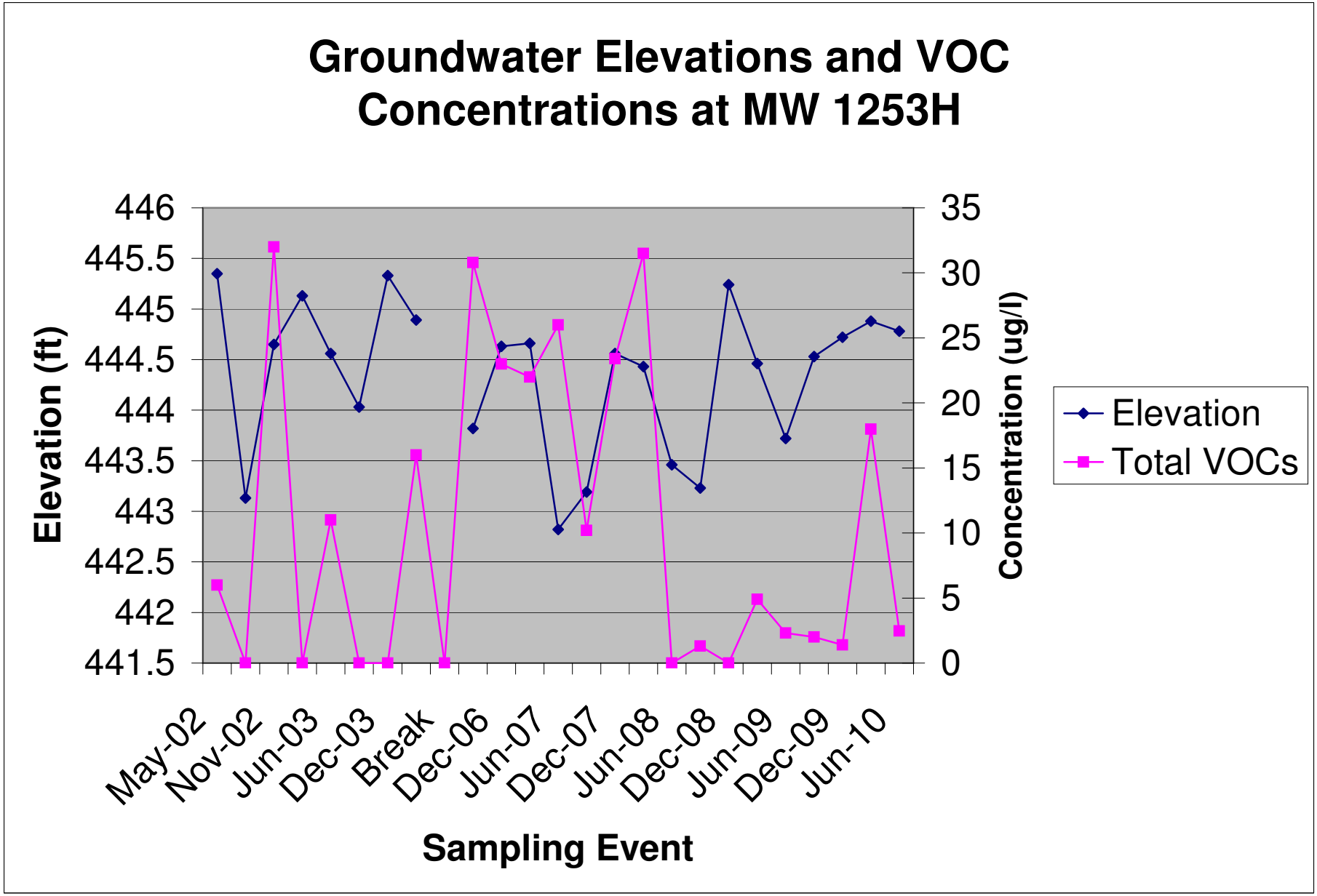

Groundwater Elevations and VOC Concentrations at MW 1231C
Elevation (ft)
443
442.5
442
441.5
441
440.5
440
439.5
439
438.5
Concentration (ug/l)
50
45
40
35
30
25
20
15
10
5
0
May-02
Nov-02
Jun-03
Dec-03
Break
Dec-06
Jun-07
Dec-07
Jun-08
Dec-08
Jun-09
Dec-09
Jun-10
Sampling Event
Elevation
Total VOCs

Groundwater Elevations and VOC Concentrations at MW 1231E

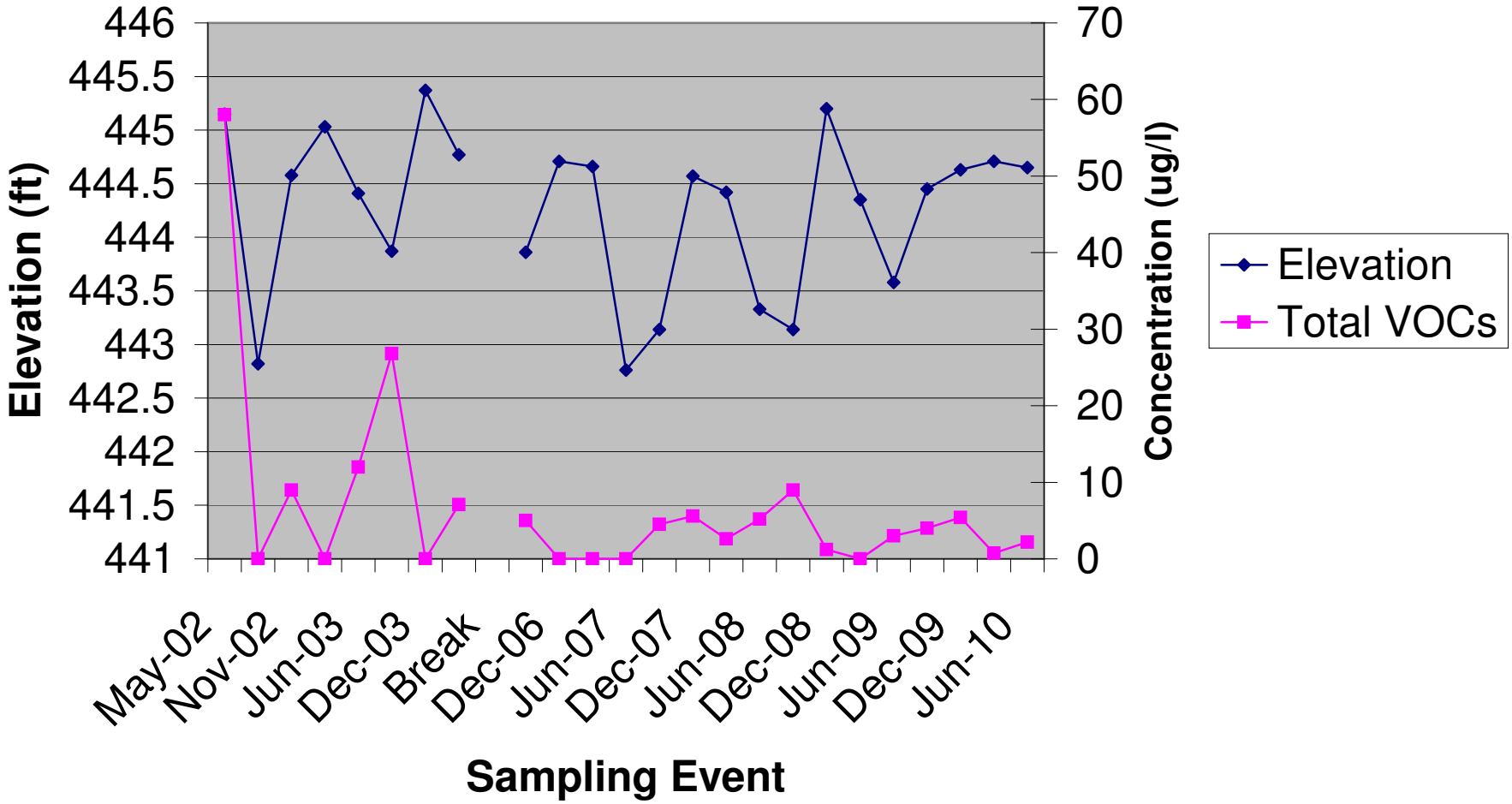


Groundwater Elevations and VOC Concentrations at MW 1231F




Groundwater Elevations and VOC Concentrations at MW 1253H
Elevation (ft)
446
445.5
445
444.5
444
443.5
443
442.5
442
441.5
Concentration (ug/l)
35
30
25
20
15
10
5
0
May-02
Nov-02
Jun-03
Dec-03
Break
Dec-06
Jun-07
Dec-07
Jun-08
Dec-08
Jun-09
Dec-09
Jun-10
Sampling Event
Elevation
Total VOCs

Groundwater Elevations and VOC Concentrations at MW 1253I



ATTACHMENT 9

Laboratory Analytical Report

Verona Research Facility OM&M Update
June 2010 Sampling

Report Date:
21-Jul-10 10:02

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

MITKEM LABORATORIES

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

Laboratory Report

Lu Engineering and Land Surveying P.C.
175 Sullys Trail, Suite 202
Pittsford, NY 14534

Work Order: J1299
Project : Verona NY LTM Site
Project #:

Attn: Greg Andrus

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
J1299-01	MW1253E	Aqueous	23-Jun-10 14:25	24-Jun-10 11:35
J1299-02	MW1253F	Aqueous	23-Jun-10 14:12	24-Jun-10 11:35
J1299-03	MW1253G	Aqueous	23-Jun-10 15:45	24-Jun-10 11:35
J1299-04	MW1253H	Aqueous	23-Jun-10 16:10	24-Jun-10 11:35
J1299-05	MW1253I	Aqueous	23-Jun-10 16:50	24-Jun-10 11:35
J1299-06	TRIP BLANK	Aqueous	23-Jun-10 00:00	24-Jun-10 11:35
J1299-07	MW1231C	Aqueous	24-Jun-10 12:00	25-Jun-10 11:42
J1299-08	MW1231E	Aqueous	24-Jun-10 13:00	25-Jun-10 11:42
J1299-09	MW1231EXD	Aqueous	24-Jun-10 13:10	25-Jun-10 11:42
J1299-10	MW1231F	Aqueous	24-Jun-10 13:30	25-Jun-10 11:42
J1299-11	MW1231G	Aqueous	24-Jun-10 10:30	25-Jun-10 11:42
J1299-12	MW1231H	Aqueous	24-Jun-10 10:25	25-Jun-10 11:42
J1299-13	MW1231I	Aqueous	24-Jun-10 11:35	25-Jun-10 11:42
J1299-14	SW-01	Aqueous	24-Jun-10 14:45	25-Jun-10 11:42
J1299-15	SW-02	Aqueous	24-Jun-10 14:15	25-Jun-10 11:42
J1299-16	SW-03	Aqueous	24-Jun-10 14:30	25-Jun-10 11:42
J1299-17	TRIP BLANK	Aqueous	24-Jun-10 00:00	25-Jun-10 11:42

I attest that the information contained within the report has been reviewed for accuracy and checked against the quaility control requirements for each method. The results relate only to the samples(s) as recevied.

All applicable NELAC or USEPA CLP requirments have been meet.

Mitkem Laboratories is accredited under the National Environmental Laboratory Approval Program (NELAP) and is certified by several States, as well as USEPA and US Department of Defense. The current list of our laboratory approvals and certifications is available on the Certifications page our web site at www.mitkem.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Pennsylvania	68-00520
Rhode Island	LAI00301
Texas	T104704422-08-TX
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-05-030

Authorized by:

Yihai Ding
Laboratory Director

Technical Reviewer's Initials:

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : Verona NY LTM Site **SDG :** J1299

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
MW1253E	J1299-01	E624			E200.7	SEE DATA
MW1253E	J1299-01				E200.7	
MW1253F	J1299-02	E624			E200.7	SEE DATA
MW1253F	J1299-02				E200.7	
MW1253G	J1299-03	E624			E200.7	SEE DATA
MW1253G	J1299-03				E200.7	
MW1253H	J1299-04	E624			E200.7	SEE DATA
MW1253H	J1299-04				E200.7	
MW1253I	J1299-05	E624			E200.7	SEE DATA
MW1253I	J1299-05				E200.7	
TRIP BLANK	J1299-06	E624				
MW1231C	J1299-07	E624			E200.7	SEE DATA
MW1231C	J1299-07				E200.7	
MW1231E	J1299-08	E624			E200.7	SEE DATA
MW1231E	J1299-08				E200.7	
MW1231EXD	J1299-09	E624			E200.7	SEE DATA
MW1231EXD	J1299-09				E200.7	
MW1231F	J1299-10	E624			E200.7	SEE DATA
MW1231F	J1299-10				E200.7	
MW1231G	J1299-11	E624			E200.7	SEE DATA
MW1231G	J1299-11				E200.7	
MW1231H	J1299-12	E624			E200.7	SEE DATA
MW1231H	J1299-12				E200.7	
MW1231I	J1299-13	E624			E200.7	SEE DATA
MW1231I	J1299-13				E200.7	
SW-01	J1299-14	E624			E200.7	SEE DATA
SW-01	J1299-14				E200.7	
SW-02	J1299-15	E624			E200.7	SEE DATA
SW-02	J1299-15				E200.7	
SW-03	J1299-16	E624			E200.7	SEE DATA
SW-03	J1299-16				E200.7	
TRIP BLANK	J1299-17	E624				

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : Verona NY LTM Site **SDG :** J1299

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
E624					
J1299-01A	AQ	6/23/2010	6/24/2010	NA	7/3/2010
J1299-02A	AQ	6/23/2010	6/24/2010	NA	7/3/2010
J1299-03A	AQ	6/23/2010	6/24/2010	NA	7/3/2010
J1299-04A	AQ	6/23/2010	6/24/2010	NA	7/3/2010
J1299-04AMS	AQ	6/23/2010	6/24/2010	NA	7/6/2010
J1299-04AMSD	AQ	6/23/2010	6/24/2010	NA	7/6/2010
J1299-05A	AQ	6/23/2010	6/24/2010	NA	7/3/2010
J1299-06A	AQ	6/23/2010	6/24/2010	NA	7/3/2010
J1299-07A	AQ	6/24/2010	6/25/2010	NA	7/3/2010
J1299-08A	AQ	6/24/2010	6/25/2010	NA	7/3/2010
J1299-09A	AQ	6/24/2010	6/25/2010	NA	7/3/2010
J1299-10A	AQ	6/24/2010	6/25/2010	NA	7/3/2010
J1299-11A	AQ	6/24/2010	6/25/2010	NA	7/3/2010
J1299-12A	AQ	6/24/2010	6/25/2010	NA	7/3/2010
J1299-13A	AQ	6/24/2010	6/25/2010	NA	7/3/2010
J1299-14A	AQ	6/24/2010	6/25/2010	NA	7/3/2010
J1299-15A	AQ	6/24/2010	6/25/2010	NA	7/3/2010
J1299-16A	AQ	6/24/2010	6/25/2010	NA	7/3/2010
J1299-17A	AQ	6/24/2010	6/25/2010	NA	7/3/2010

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : Verona NY LTM Site **SDG :** J1299

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
E624					
J1299-01A	AQ	E624	NA	LOW	1
J1299-02A	AQ	E624	NA	LOW	1
J1299-03A	AQ	E624	NA	LOW	1
J1299-04A	AQ	E624	NA	LOW	1
J1299-04AMS	AQ	E624	NA	LOW	1
J1299-04AMSD	AQ	E624	NA	LOW	1
J1299-05A	AQ	E624	NA	LOW	1
J1299-06A	AQ	E624	NA	LOW	1
J1299-07A	AQ	E624	NA	LOW	1
J1299-08A	AQ	E624	NA	LOW	1
J1299-09A	AQ	E624	NA	LOW	1
J1299-10A	AQ	E624	NA	LOW	1
J1299-11A	AQ	E624	NA	LOW	1
J1299-12A	AQ	E624	NA	LOW	1
J1299-13A	AQ	E624	NA	LOW	1
J1299-14A	AQ	E624	NA	LOW	1
J1299-15A	AQ	E624	NA	LOW	1
J1299-16A	AQ	E624	NA	LOW	1
J1299-17A	AQ	E624	NA	LOW	1

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary ME

Project Name : Verona NY LTM Site **SDG :** J1299

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
E200.7				
J1299-01B	AQ	E200.7	6/24/2010	7/2/2010
J1299-01C	AQ	E200.7	6/24/2010	7/2/2010
J1299-02B	AQ	E200.7	6/24/2010	7/2/2010
J1299-02C	AQ	E200.7	6/24/2010	7/2/2010
J1299-03B	AQ	E200.7	6/24/2010	7/2/2010
J1299-03C	AQ	E200.7	6/24/2010	7/2/2010
J1299-04B	AQ	E200.7	6/24/2010	7/2/2010
J1299-04BDUP	AQ	E200.7	6/24/2010	7/2/2010
J1299-04BMS	AQ	E200.7	6/24/2010	7/2/2010
J1299-04C	AQ	E200.7	6/24/2010	7/2/2010
J1299-04CDUP	AQ	E200.7	6/24/2010	7/2/2010
J1299-04CMS	AQ	E200.7	6/24/2010	7/2/2010
J1299-05B	AQ	E200.7	6/24/2010	7/2/2010
J1299-05C	AQ	E200.7	6/24/2010	7/2/2010
J1299-07B	AQ	E200.7	6/25/2010	7/2/2010
J1299-07C	AQ	E200.7	6/25/2010	7/2/2010
J1299-08B	AQ	E200.7	6/25/2010	7/2/2010
J1299-08C	AQ	E200.7	6/25/2010	7/2/2010
J1299-09B	AQ	E200.7	6/25/2010	7/2/2010
J1299-09C	AQ	E200.7	6/25/2010	7/2/2010
J1299-10B	AQ	E200.7	6/25/2010	7/2/2010
J1299-10C	AQ	E200.7	6/25/2010	7/2/2010
J1299-11B	AQ	E200.7	6/25/2010	7/2/2010
J1299-11C	AQ	E200.7	6/25/2010	7/2/2010
J1299-12B	AQ	E200.7	6/25/2010	7/2/2010
J1299-12C	AQ	E200.7	6/25/2010	7/2/2010
J1299-13B	AQ	E200.7	6/25/2010	7/2/2010
J1299-13C	AQ	E200.7	6/25/2010	7/2/2010
J1299-14B	AQ	E200.7	6/25/2010	7/2/2010
J1299-14C	AQ	E200.7	6/25/2010	7/2/2010
J1299-15B	AQ	E200.7	6/25/2010	7/2/2010
J1299-15C	AQ	E200.7	6/25/2010	7/2/2010
J1299-16B	AQ	E200.7	6/25/2010	7/2/2010
J1299-16C	AQ	E200.7	6/25/2010	7/2/2010

Analytical Data Package for Lu Engineering and Land Surveying, P.C.

Client Project No.: Verona NY LTM Site

Mitkem Work Order ID: J1299

July 21, 2010

Prepared For:

Lu Engineering and Land Surveying, P.C.
2230 Penfield Road
Penfield, NY 14526-1922
Attn: Mr. Greg Andrus

Prepared By:

Mitkem Laboratories
175 Metro Center Boulevard
Warwick, RI 02886
(401) 732-3400

SDG Narrative

Mitkem Laboratories submits the enclosed data package in response to Lu Engineering and Land Surveying, P.C.'s Verona NY LTM project. Under this deliverable, analysis results are presented for seventeen aqueous samples that were received on March 30 and April 1, 2010. Analyses were performed per specifications in the project's contract and the chain of custody forms. Following the narrative is the Mitkem Work Order for cross-referencing sample client ID with laboratory sample ID.

The analyses were performed according to NYSDEC ASP protocols (2000 update) and reported per NYSDEC ASP requirement for Category A deliverable.

The following observation and/or deviations are observed for the following analyses:

1. Volatile Analysis:

Surrogate recovery: recoveries were within the QC limits.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits with the exception of low recovery of cis-1,2-dichloroethene and total xylene in LCS-52785 and low recovery of cis-1,2-dichloroethene in LCS-52794. Replicate RPDs were within the QC limits.

Matrix spike/ matrix spike duplicate analysis: duplicate matrix spike analysis was performed on sample MW1253H. Spike recoveries were within the QC limits with the exception of marginally low recovery of bromodichloromethane in the matrix spike. Replicate RPDs were within the QC limits with thee exception of chloromethane.

Sample analysis: please note that tetrachloroethene was detected in method blank MB-52794 above the method detection limit but below the reporting limit. This method blank is associated with the matrix spike and matrix spike duplicate. No other unusual observation was made for the analysis.

2. Dissolved Gasses Analysis (RSK-175):

Lab control sample: spike recoveries were within the QC limits.

Matrix spike analysis: duplicate matrix spike analysis was performed on sample MW1253H. Spike recoveries and replicate RPDs were within the QC limits.

Sample analysis: no unusual observation was made for the analysis.

3. Total Metals Analysis:

The metals analysis results are reported in two sub-SDGs, SJ1299TOTAL and SJ1299D. The total metals analysis results are reported in SDG SJ1299TOTAL and the dissolved metals analysis results are reported in SDG SJ1299D.

Lab control sample: spike recoveries were within the QC limits.

Matrix spike: matrix spike was performed on sample MW1253H. Spike recoveries were within the QC limits with the exception of manganese. The spike recovery for manganese could not be accurately determined, as the sample concentration was significantly greater than the spike concentration. When the sample concentration is more than four times the spike concentration, it tends to obscure the relatively smaller spike amount; control limits do not apply in this circumstance.

Duplicate: duplicate analysis was performed on sample MW1253H. Replicate RPDs were within the QC limits.

Sample analysis: serial dilution was performed on sample MW1253H. Percent differences were within the QC limits. No other unusual observations were made during sample analysis.

4. Dissolved Metals Analysis:

Lab control sample: spike recoveries were within the QC limits.

Matrix spike: matrix spike was performed on sample MW1253H. Spike recoveries were within the QC limits with the exception of manganese. The spike recovery for manganese could not be accurately determined, as the sample concentration was significantly greater than the spike concentration. When the sample concentration is more than four times the spike concentration, it tends to obscure the relatively smaller spike amount; control limits do not apply in this circumstance.

Duplicate: duplicate analysis was performed on sample MW1253H. Replicate RPDs were within the QC limits.

Sample analysis: serial dilution was performed on sample MW1253H. Percent differences were within the QC limits. No other unusual observations were made during sample analysis.

5. Wet Chemistry Analyses:

Lab control sample: spike recovery was within the QC limits for nitrate, sulfate, alkalinity and total dissolved solids.

Matrix spike/matrix spike duplicate: duplicate matrix spikes were performed on samples MW1253H and SW-03 for nitrate and sulfate. Spike recovery was within the QC limits with the exception of marginally low recovery of nitrate in the matrix spike and matrix spike duplicate for sample MW 1231EXD. Percent RPD was within the QC limits for both nitrate and sulfate.

Matrix spike analysis: matrix spike was performed on sample MW1253H for alkalinity. Spike recovery was within the QC limits.

Duplicate: duplicate analysis was performed on sample MW1253H for alkalinity and free carbon dioxide and samples MW1253H and SW-03 for total dissolved solids and samples MW1253H and MW1231F for pH. Replicate RPD was within the QC limits for all analyses.

Sample analysis: nitrate was detected in method blank MB-52611 above the method detection limit, but below the reporting limit. Where nitrate is also detected in a sample, their concentrations are qualified with a "B" on data sheets No other unusual observations were made during sample analysis.

All pages in this report have been numbered consecutively, starting with the title page and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, 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 laboratory manager or his designee, as verified by the following signature.

Agnes R Huntley

Agnes Huntley
CLP Project Manager
07/21/10

WorkOrder: J1299

07/21/2010 10:00

Mitkem Laboratories

Client ID: LU
Project: Verona NY LTM Site
WO Name: Verona NY LTM Site
Location: VERONA,

Case:
SDG:

HC Due: 07/16/10
Fax Due:
Fax Report: ☐

Report Level: ASP-A
Special Program:
EDD: CLF

PO: 13147-01

Comments: charging return shipping cost in invoice, provide return airbill with account #. Bill overnight bottle shipping cost on 6/22/10 1Z6R94400196536032, 1Z6R94400196999042

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
J1299-01A	MW1253E	06/23/2010 14:25	06/24/2010	Aqueous	E624	/ 1ppb ICAL, special list,				Y	VOA
J1299-01A	MW1253E	06/23/2010 14:25	06/24/2010	Aqueous	RSK175	/ Ethene and ethane				Y	VOA
J1299-01B	MW1253E	06/23/2010 14:25	06/24/2010	Aqueous	E200.7	TOTAL / Fe & Mn only				Y	M4
J1299-01C	MW1253E	06/23/2010 14:25	06/24/2010	Aqueous	E200.7	DISS / Fe & Mn only				Y	M4
J1299-01D	MW1253E	06/23/2010 14:25	06/24/2010	Aqueous	E300IC_W	/ NO3, SO4				Y	E2
J1299-01D	MW1253E	06/23/2010 14:25	06/24/2010	Aqueous	SM2320_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-01D	MW1253E	06/23/2010 14:25	06/24/2010	Aqueous	SM2540_TDS	/					E2
J1299-01D	MW1253E	06/23/2010 14:25	06/24/2010	Aqueous	SM4500_CALC_CO2_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-01D	MW1253E	06/23/2010 14:25	06/24/2010	Aqueous	SM4500_H+	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-02A	MW1253F	06/23/2010 14:12	06/24/2010	Aqueous	E624	/ 1ppb ICAL, special list,				Y	VOA
J1299-02A	MW1253F	06/23/2010 14:12	06/24/2010	Aqueous	RSK175	/ Ethene and ethane				Y	VOA
J1299-02B	MW1253F	06/23/2010 14:12	06/24/2010	Aqueous	E200.7	TOTAL / Fe & Mn only				Y	M4
J1299-02C	MW1253F	06/23/2010 14:12	06/24/2010	Aqueous	E200.7	DISS / Fe & Mn only				Y	M4
J1299-02D	MW1253F	06/23/2010 14:12	06/24/2010	Aqueous	E300IC_W	/ NO3, SO4				Y	E2
J1299-02D	MW1253F	06/23/2010 14:12	06/24/2010	Aqueous	SM2320_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-02D	MW1253F	06/23/2010 14:12	06/24/2010	Aqueous	SM2540_TDS	/					E2
J1299-02D	MW1253F	06/23/2010 14:12	06/24/2010	Aqueous	SM4500_CALC_CO2_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-02D	MW1253F	06/23/2010 14:12	06/24/2010	Aqueous	SM4500_H+	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-03A	MW1253G	06/23/2010 15:45	06/24/2010	Aqueous	E624	/ 1ppb ICAL, special list,				Y	VOA
J1299-03A	MW1253G	06/23/2010 15:45	06/24/2010	Aqueous	RSK175	/ Ethene and ethane				Y	VOA
J1299-03B	MW1253G	06/23/2010 15:45	06/24/2010	Aqueous	E200.7	TOTAL / Fe & Mn only				Y	M4

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Lab Client Rep: Shirley S Ng

WorkOrder: J1299

07/21/2010 10:00

Mitkem Laboratories

Client ID: LU
Project: Verona NY LTM Site
WO Name: Verona NY LTM Site
Location: VERONA,

Case:
SDG:

HC Due: 07/16/10
Fax Due:
Fax Report: ☐

Report Level: ASP-A
Special Program:
EDD: CLF

PO: 13147-01

Comments: charging return shipping cost in invoice, provide return airbill with account #. Bill overnight bottle shipping cost on 6/22/10 1Z6R94400196536032, 1Z6R94400196999042

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
J1299-03C	MW1253G	06/23/2010 15:45	06/24/2010	Aqueous	E200.7	DISS / Fe & Mn only				Y	M4
J1299-03D	MW1253G	06/23/2010 15:45	06/24/2010	Aqueous	E300IC_W	/ NO3, SO4				Y	E2
J1299-03D	MW1253G	06/23/2010 15:45	06/24/2010	Aqueous	SM2320_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-03D	MW1253G	06/23/2010 15:45	06/24/2010	Aqueous	SM2540_TDS	/					E2
J1299-03D	MW1253G	06/23/2010 15:45	06/24/2010	Aqueous	SM4500_CALC_CO2_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-03D	MW1253G	06/23/2010 15:45	06/24/2010	Aqueous	SM4500_H+	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-04A	MW1253H	06/23/2010 16:10	06/24/2010	Aqueous	E624	/ 1ppb ICAL, special list,			Y	Y	VOA
J1299-04A	MW1253H	06/23/2010 16:10	06/24/2010	Aqueous	RSK175	/ Ethene and ethane			Y	Y	VOA
J1299-04B	MW1253H	06/23/2010 16:10	06/24/2010	Aqueous	E200.7	TOTAL / Fe & Mn only			Y	Y	M4
J1299-04C	MW1253H	06/23/2010 16:10	06/24/2010	Aqueous	E200.7	DISS / Fe & Mn only			Y	Y	M4
J1299-04D	MW1253H	06/23/2010 16:10	06/24/2010	Aqueous	E300IC_W	/ NO3, SO4			Y	Y	E2
J1299-04D	MW1253H	06/23/2010 16:10	06/24/2010	Aqueous	SM2320_W	/ SM4500_CO2_W -- ALK, Free CO2, PH			Y		E2
J1299-04D	MW1253H	06/23/2010 16:10	06/24/2010	Aqueous	SM2540_TDS	/			Y		E2
J1299-04D	MW1253H	06/23/2010 16:10	06/24/2010	Aqueous	SM4500_CALC_CO2_W	/ SM4500_CO2_W -- ALK, Free CO2, PH			Y		E2
J1299-04D	MW1253H	06/23/2010 16:10	06/24/2010	Aqueous	SM4500_H+	/ SM4500_CO2_W -- ALK, Free CO2, PH			Y		E2
J1299-05A	MW1253I	06/23/2010 16:50	06/24/2010	Aqueous	E624	/ 1ppb ICAL, special list,				Y	VOA
J1299-05A	MW1253I	06/23/2010 16:50	06/24/2010	Aqueous	RSK175	/ Ethene and ethane				Y	VOA
J1299-05B	MW1253I	06/23/2010 16:50	06/24/2010	Aqueous	E200.7	TOTAL / Fe & Mn only				Y	M4
J1299-05C	MW1253I	06/23/2010 16:50	06/24/2010	Aqueous	E200.7	DISS / Fe & Mn only				Y	M4
J1299-05D	MW1253I	06/23/2010 16:50	06/24/2010	Aqueous	E300IC_W	/ NO3, SO4				Y	E2
J1299-05D	MW1253I	06/23/2010 16:50	06/24/2010	Aqueous	SM2320_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Lab Client Rep: Shirley S Ng

WorkOrder: J1299

07/21/2010 10:00

Mitkem Laboratories

Client ID: LU
Project: Verona NY LTM Site
WO Name: Verona NY LTM Site
Location: VERONA,

Case:
SDG:

HC Due: 07/16/10
Fax Due:
Fax Report: ☐

Report Level: ASP-A
Special Program:
EDD: CLF

PO: 13147-01

Comments: charging return shipping cost in invoice, provide return airbill with account #. Bill overnight bottle shipping cost on 6/22/10 1Z6R94400196536032, 1Z6R94400196999042

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
J1299-05D	MW1253I	06/23/2010 16:50	06/24/2010	Aqueous	SM2540_TDS	/					E2
J1299-05D	MW1253I	06/23/2010 16:50	06/24/2010	Aqueous	SM4500_CALC_CO2_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-05D	MW1253I	06/23/2010 16:50	06/24/2010	Aqueous	SM4500_H+	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-06A	TRIP BLANK	06/23/2010 00:00	06/24/2010	Aqueous	E624	/ 1ppb ICAL, special list,				Y	VOA
J1299-07A	MW1231C	06/24/2010 12:00	06/25/2010	Aqueous	E624	/ 1ppb ICAL, special list,				Y	VOA
J1299-07A	MW1231C	06/24/2010 12:00	06/25/2010	Aqueous	RSK175	/ Ethene and ethane				Y	VOA
J1299-07B	MW1231C	06/24/2010 12:00	06/25/2010	Aqueous	E200.7	TOTAL / Fe & Mn only				Y	M4
J1299-07C	MW1231C	06/24/2010 12:00	06/25/2010	Aqueous	E200.7	DISS / Fe & Mn only				Y	M4
J1299-07D	MW1231C	06/24/2010 12:00	06/25/2010	Aqueous	E300IC_W	/ NO3, SO4				Y	E2
J1299-07D	MW1231C	06/24/2010 12:00	06/25/2010	Aqueous	SM2320_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-07D	MW1231C	06/24/2010 12:00	06/25/2010	Aqueous	SM2540_TDS	/					E2
J1299-07D	MW1231C	06/24/2010 12:00	06/25/2010	Aqueous	SM4500_CALC_CO2_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-07D	MW1231C	06/24/2010 12:00	06/25/2010	Aqueous	SM4500_H+	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-08A	MW1231E	06/24/2010 13:00	06/25/2010	Aqueous	E624	/ 1ppb ICAL, special list,				Y	VOA
J1299-08A	MW1231E	06/24/2010 13:00	06/25/2010	Aqueous	RSK175	/ Ethene and ethane				Y	VOA
J1299-08B	MW1231E	06/24/2010 13:00	06/25/2010	Aqueous	E200.7	TOTAL / Fe & Mn only				Y	M4
J1299-08C	MW1231E	06/24/2010 13:00	06/25/2010	Aqueous	E200.7	DISS / Fe & Mn only				Y	M4
J1299-08D	MW1231E	06/24/2010 13:00	06/25/2010	Aqueous	E300IC_W	/ NO3, SO4				Y	E2
J1299-08D	MW1231E	06/24/2010 13:00	06/25/2010	Aqueous	SM2320_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-08D	MW1231E	06/24/2010 13:00	06/25/2010	Aqueous	SM2540_TDS	/					E2
J1299-08D	MW1231E	06/24/2010 13:00	06/25/2010	Aqueous	SM4500_CALC_CO2_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Lab Client Rep: Shirley S Ng

WorkOrder: J1299 *07/21/2010 10:00* Mitkem Laboratories

Client ID: LU **Case:** **HC Due:** 07/16/10 **Report Level:** ASP-A
Project: Verona NY LTM Site **SDG:** **Fax Due:** **Special Program:**
WO Name: Verona NY LTM Site **Fax Report:** ☐ **EDD:** CLF
Location: VERONA, **PO:** 13147-01
Comments: charging return shipping cost in invoice, provide return airbill with account #. Bill overnight bottle shipping cost on 6/22/10 1Z6R94400196536032, 1Z6R94400196999042

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
J1299-08D	MW1231E	06/24/2010 13:00	06/25/2010	Aqueous	SM4500_H+	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-09A	MW1231EXD	06/24/2010 13:10	06/25/2010	Aqueous	E624	/ 1ppb ICAL, special list,				Y	VOA
J1299-09A	MW1231EXD	06/24/2010 13:10	06/25/2010	Aqueous	RSK175	/ Ethene and ethane				Y	VOA
J1299-09B	MW1231EXD	06/24/2010 13:10	06/25/2010	Aqueous	E200.7	TOTAL / Fe & Mn only				Y	M4
J1299-09C	MW1231EXD	06/24/2010 13:10	06/25/2010	Aqueous	E200.7	DISS / Fe & Mn only				Y	M4
J1299-09D	MW1231EXD	06/24/2010 13:10	06/25/2010	Aqueous	E300IC_W	/ NO3, SO4				Y	E2
J1299-09D	MW1231EXD	06/24/2010 13:10	06/25/2010	Aqueous	SM2320_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-09D	MW1231EXD	06/24/2010 13:10	06/25/2010	Aqueous	SM2540_TDS	/					E2
J1299-09D	MW1231EXD	06/24/2010 13:10	06/25/2010	Aqueous	SM4500_CALC_CO2_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-09D	MW1231EXD	06/24/2010 13:10	06/25/2010	Aqueous	SM4500_H+	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-10A	MW1231F	06/24/2010 13:30	06/25/2010	Aqueous	E624	/ 1ppb ICAL, special list,				Y	VOA
J1299-10A	MW1231F	06/24/2010 13:30	06/25/2010	Aqueous	RSK175	/ Ethene and ethane				Y	VOA
J1299-10B	MW1231F	06/24/2010 13:30	06/25/2010	Aqueous	E200.7	TOTAL / Fe & Mn only				Y	M4
J1299-10C	MW1231F	06/24/2010 13:30	06/25/2010	Aqueous	E200.7	DISS / Fe & Mn only				Y	M4
J1299-10D	MW1231F	06/24/2010 13:30	06/25/2010	Aqueous	E300IC_W	/ NO3, SO4				Y	E2
J1299-10D	MW1231F	06/24/2010 13:30	06/25/2010	Aqueous	SM2320_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-10D	MW1231F	06/24/2010 13:30	06/25/2010	Aqueous	SM2540_TDS	/					E2
J1299-10D	MW1231F	06/24/2010 13:30	06/25/2010	Aqueous	SM4500_CALC_CO2_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-10D	MW1231F	06/24/2010 13:30	06/25/2010	Aqueous	SM4500_H+	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-11A	MW1231G	06/24/2010 10:30	06/25/2010	Aqueous	E624	/ 1ppb ICAL, special list,				Y	VOA
J1299-11A	MW1231G	06/24/2010 10:30	06/25/2010	Aqueous	RSK175	/ Ethene and ethane				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Lab Client Rep: Shirley S Ng

WorkOrder: J1299

07/21/2010 10:00

Mitkem Laboratories

Client ID: LU
Project: Verona NY LTM Site
WO Name: Verona NY LTM Site
Location: VERONA,

Case:
SDG:

HC Due: 07/16/10
Fax Due:
Fax Report: ☐

Report Level: ASP-A
Special Program:
EDD: CLF

PO: 13147-01

Comments: charging return shipping cost in invoice, provide return airbill with account #. Bill overnight bottle shipping cost on 6/22/10 1Z6R94400196536032, 1Z6R94400196999042

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
J1299-11B	MW1231G	06/24/2010 10:30	06/25/2010	Aqueous	E200.7	TOTAL / Fe & Mn only				Y	M4
J1299-11C	MW1231G	06/24/2010 10:30	06/25/2010	Aqueous	E200.7	DISS / Fe & Mn only				Y	M4
J1299-11D	MW1231G	06/24/2010 10:30	06/25/2010	Aqueous	E300IC_W	/ NO3, SO4				Y	E2
J1299-11D	MW1231G	06/24/2010 10:30	06/25/2010	Aqueous	SM2320_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-11D	MW1231G	06/24/2010 10:30	06/25/2010	Aqueous	SM2540_TDS	/					E2
J1299-11D	MW1231G	06/24/2010 10:30	06/25/2010	Aqueous	SM4500_CALC_CO2_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-11D	MW1231G	06/24/2010 10:30	06/25/2010	Aqueous	SM4500_H+	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-12A	MW1231H	06/24/2010 10:25	06/25/2010	Aqueous	E624	/ 1ppb ICAL, special list,				Y	VOA
J1299-12A	MW1231H	06/24/2010 10:25	06/25/2010	Aqueous	RSK175	/ Ethene and ethane				Y	VOA
J1299-12B	MW1231H	06/24/2010 10:25	06/25/2010	Aqueous	E200.7	TOTAL / Fe & Mn only				Y	M4
J1299-12C	MW1231H	06/24/2010 10:25	06/25/2010	Aqueous	E200.7	DISS / Fe & Mn only				Y	M4
J1299-12D	MW1231H	06/24/2010 10:25	06/25/2010	Aqueous	E300IC_W	/ NO3, SO4				Y	E2
J1299-12D	MW1231H	06/24/2010 10:25	06/25/2010	Aqueous	SM2320_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-12D	MW1231H	06/24/2010 10:25	06/25/2010	Aqueous	SM2540_TDS	/					E2
J1299-12D	MW1231H	06/24/2010 10:25	06/25/2010	Aqueous	SM4500_CALC_CO2_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-12D	MW1231H	06/24/2010 10:25	06/25/2010	Aqueous	SM4500_H+	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-13A	MW1231I	06/24/2010 11:35	06/25/2010	Aqueous	E624	/ 1ppb ICAL, special list,				Y	VOA
J1299-13A	MW1231I	06/24/2010 11:35	06/25/2010	Aqueous	RSK175	/ Ethene and ethane				Y	VOA
J1299-13B	MW1231I	06/24/2010 11:35	06/25/2010	Aqueous	E200.7	TOTAL / Fe & Mn only				Y	M4
J1299-13C	MW1231I	06/24/2010 11:35	06/25/2010	Aqueous	E200.7	DISS / Fe & Mn only				Y	M4
J1299-13D	MW1231I	06/24/2010 11:35	06/25/2010	Aqueous	E300IC_W	/ NO3, SO4				Y	E2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Lab Client Rep: Shirley S Ng

WorkOrder: J1299

07/21/2010 10:00

Mitkem Laboratories

Client ID: LU
Project: Verona NY LTM Site
WO Name: Verona NY LTM Site
Location: VERONA,

Case:
SDG:

HC Due: 07/16/10
Fax Due:
Fax Report: ☐

Report Level: ASP-A
Special Program:
EDD: CLF

PO: 13147-01

Comments: charging return shipping cost in invoice, provide return airbill with account #. Bill overnight bottle shipping cost on 6/22/10 1Z6R94400196536032, 1Z6R94400196999042

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
J1299-13D	MW1231I	06/24/2010 11:35	06/25/2010	Aqueous	SM2320_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-13D	MW1231I	06/24/2010 11:35	06/25/2010	Aqueous	SM2540_TDS	/					E2
J1299-13D	MW1231I	06/24/2010 11:35	06/25/2010	Aqueous	SM4500_CALC_CO2_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-13D	MW1231I	06/24/2010 11:35	06/25/2010	Aqueous	SM4500_H+	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-14A	SW-01	06/24/2010 14:45	06/25/2010	Aqueous	E624	/ 1ppb ICAL, special list,				Y	VOA
J1299-14A	SW-01	06/24/2010 14:45	06/25/2010	Aqueous	RSK175	/ Ethene and ethane				Y	VOA
J1299-14B	SW-01	06/24/2010 14:45	06/25/2010	Aqueous	E200.7	TOTAL / Fe & Mn only				Y	M4
J1299-14C	SW-01	06/24/2010 14:45	06/25/2010	Aqueous	E200.7	DISS / Fe & Mn only				Y	M4
J1299-14D	SW-01	06/24/2010 14:45	06/25/2010	Aqueous	E300IC_W	/ NO3, SO4				Y	E2
J1299-14D	SW-01	06/24/2010 14:45	06/25/2010	Aqueous	SM2320_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-14D	SW-01	06/24/2010 14:45	06/25/2010	Aqueous	SM2540_TDS	/					E2
J1299-14D	SW-01	06/24/2010 14:45	06/25/2010	Aqueous	SM4500_CALC_CO2_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-14D	SW-01	06/24/2010 14:45	06/25/2010	Aqueous	SM4500_H+	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-15A	SW-02	06/24/2010 14:15	06/25/2010	Aqueous	E624	/ 1ppb ICAL, special list,				Y	VOA
J1299-15A	SW-02	06/24/2010 14:15	06/25/2010	Aqueous	RSK175	/ Ethene and ethane				Y	VOA
J1299-15B	SW-02	06/24/2010 14:15	06/25/2010	Aqueous	E200.7	TOTAL / Fe & Mn only				Y	M4
J1299-15C	SW-02	06/24/2010 14:15	06/25/2010	Aqueous	E200.7	DISS / Fe & Mn only				Y	M4
J1299-15D	SW-02	06/24/2010 14:15	06/25/2010	Aqueous	E300IC_W	/ NO3, SO4				Y	E2
J1299-15D	SW-02	06/24/2010 14:15	06/25/2010	Aqueous	SM2320_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-15D	SW-02	06/24/2010 14:15	06/25/2010	Aqueous	SM2540_TDS	/					E2
J1299-15D	SW-02	06/24/2010 14:15	06/25/2010	Aqueous	SM4500_CALC_CO2_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-15D	SW-02	06/24/2010 14:15	06/25/2010	Aqueous	SM4500_H+	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Lab Client Rep: Shirley S Ng

WorkOrder: J1299

07/21/2010 10:00

Mitkem Laboratories

Client ID: LU
Project: Verona NY LTM Site
WO Name: Verona NY LTM Site
Location: VERONA,

Case:
SDG:
PO: 13147-01

HC Due: 07/16/10
Fax Due:
Fax Report: ☐

Report Level: ASP-A
Special Program:
EDD: CLF

Comments: charging return shipping cost in invoice, provide return airbill with account #. Bill overnight bottle shipping cost on 6/22/10 1Z6R94400196536032, 1Z6R94400196999042

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
J1299-16A	SW-03	06/24/2010 14:30	06/25/2010	Aqueous	E624	/ 1ppb ICAL, special list,				Y	VOA
J1299-16A	SW-03	06/24/2010 14:30	06/25/2010	Aqueous	RSK175	/ Ethene and ethane				Y	VOA
J1299-16B	SW-03	06/24/2010 14:30	06/25/2010	Aqueous	E200.7	TOTAL / Fe & Mn only				Y	M4
J1299-16C	SW-03	06/24/2010 14:30	06/25/2010	Aqueous	E200.7	DISS / Fe & Mn only				Y	M4
J1299-16D	SW-03	06/24/2010 14:30	06/25/2010	Aqueous	E300IC_W	/ NO3, SO4				Y	E2
J1299-16D	SW-03	06/24/2010 14:30	06/25/2010	Aqueous	SM2320_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-16D	SW-03	06/24/2010 14:30	06/25/2010	Aqueous	SM2540_TDS	/					E2
J1299-16D	SW-03	06/24/2010 14:30	06/25/2010	Aqueous	SM4500_CALC_CO2_W	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-16D	SW-03	06/24/2010 14:30	06/25/2010	Aqueous	SM4500_H+	/ SM4500_CO2_W -- ALK, Free CO2, PH					E2
J1299-17A	TRIP BLANK	06/24/2010 00:00	06/25/2010	Aqueous	E624	/ 1ppb ICAL, special list,				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Lab Client Rep: Shirley S Ng

Sample Transmittal Documentation

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☑ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Lu Engineers
175 Sullys Trail, Suite 202
Pittsford, NY

Telephone #:

Project Mgr. Greg Andrus

Invoice To: SAME

P.O. No.: RQN:

Project No.: 13147-03
Site Name: Verona MNA
Location: Verona, NY State: NY
Sampler(s): BB, JB

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= 10= 11=

List preservative code below:

QA/QC Reporting Notes:
(check as needed)

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id: J1299	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: VOC	Ethane/Ethene	Meth/s (Prs)	Meth/s (Unpres)	TDS/CO_2	pH/Alk	NO_3/SO_4
01	MW1253E	6/23/10	14:25	G	GW	4	0	0	3	X	X	X	X	X	X	X
02	MW1253F		14:12													
03	MW1253G		15:45													
04	MW1253H		16:10													
~~05~~ 04	MW1253HMS		16:20													
~~06~~ 04	MW1253HMSD		16:30													
~~07~~ 05	MW1253I		16:50													
~~08~~ 06	Trip Blank					2										

☐ Provide MA DEP MCP CAM Report
☐ Provide CT DPH RCP Report

QA/QC Reporting Level
☐ Standard ☐ No QC
☐ Other

State specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
		6/23/10	17:35	
	Charles NJ	6/24/10	10:35	6°C

☐ EDD Format
☑ E-mail to gregandrus@lvengineers.com

☐ Ambient ☐ Iced ☐ Refrigerated ☐ Fridge temp ___ °C ☐ Freezer temp ___ °C

C1505

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 2

Special Handling:
- ☑ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Lu Engineers
175 Sully's Trail Suite 202
Pittsford, NY
Telephone #: (585) 385-7417
Project Mgr. Greg Andrus

Invoice To: SAME
P.O. No.: _____ RQN: _____

Project No.: 13147-03
Site Name: Verona MNA
Location: Verona State: NY
Sampler(s): BB, JB

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= _____ 10= _____ 11= _____

List preservative code below:

QA/QC Reporting Notes:
(check as needed)

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id: J1299	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: VOC	Ethane/Ethen	Metals (Prs)	Metals (unprs)	TDS/CO_2	pH/Alk	NO_3/SO_4
07	MW1231C	6/24/10	12:00	G	GW	4			3	X	X	X	X	X	X	X
08	MW1231E		13:00													
09	MW1231EXD		13:10													
10	MW1231F		13:30													
11	MW1231G		10:30													
12	MW1231H		10:25													
13	MW1231I		11:35													
14	SW-01		14:45		SW											
15	SW-02		14:15													
16	SW-03		14:30													

☐ Provide MA DEP MCP CAM Report
☐ Provide CT DPH RCP Report

QA/QC Reporting Level
☐ Standard ☐ No QC
☐ Other _____

State specific reporting standards: _____

Relinquished by:	Received by:	Date:	Time:	Temp°C
		6/24/10	15:35	
		6/25/10	11.42	6.5

☐ EDD Format _____
☐ E-mail to gregandrus@luengineers.com

☐ Ambient ☐ Iced ☐ Refrigerated ☐ Fridge temp ___°C ☐ Freezer temp ___°C

SR1F

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 2

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Lu Engineers
175 Sully's Trail Suite 202
Pittsford NY
Telephone #: (585) 385-7417
Project Mgr. Greg Audus

Invoice To: SAME
P.O. No.: _____ RQN: _____

Project No.: 13147-03
Site Name: Verona MNA
Location: Verona State: NY
Sampler(s): BB, JB

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= _____ 10= _____ 11= _____

List preservative code below:

QA/QC Reporting Notes:
(check as needed)

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:
J1299 17	Trip Blank					2				

☐ Provide MA DEP MCP CAM Report
☐ Provide CT DPH RCP Report

QA/QC Reporting Level
☐ Standard ☐ No QC
☐ Other _____

State specific reporting standards:
_____

Relinquished by:	Received by:	Date:	Time:	Temp°C
			11:45	
	CB Jackson	6/25/10		6.5

☐ EDD Format _____
☐ E-mail to _____

☐ Ambient ☐ Iced ☐ Refrigerated ☐ Fridge temp ___°C ☐ Freezer temp ___°C

SS15

MITKEM LABORATORIES
Sample Condition Form

Received By: SW	Reviewed By:	Date: 6/24/10	Mitkem Work Order #: J1299
Client Project: Verona		Client: Lu	

Lab Sample ID		Preservation (pH) HNO_3	H_2SO_4	HCl	NaOH	H_3PO_4	VOA Matrix	Soil Headspace or Air Bubble ≥ 1/4"
J1299	01	C2					H	
	02							
	03							
	04							
	05	C2						
J1299	06						H	

1) Cooler Sealed — (Yes) / No

2) Custody Seal(s) — ~~Present~~ / Absent
~~Coolers~~ / Bottles
~~Intact~~ / Broken

3) Custody Seal Number(s) NA

4) Chain-of-Custody — ~~Present~~ / Absent

5) Cooler Temperature 6.0 °C
IR Temp Gun ID MT-1
Coolant Condition ICE

6) Airbill(s) — ~~Present~~ / Absent
Airbill Number(s) A371934667 8
UPS

7) Samples Bottles — ~~Intact~~ / Broken / Leaking

8) Date Received 6/24/10

9) Time Received 11:35

SW 6/24/10

Preservative Name/Lot No.:

VOA Matrix Key:

US = Unpreserved Soil	A = Air
UA = Unpreserved Aqueous	H = HCl
M = MeOH	E = Encore
N = NaHSO4	F = Freeze

See Sample Condition Notification/Corrective Action Form yes (no)

Form ID: QAF.0006

Rad OK yes / no

Y:\Controlled Forms\sample condition form

MITKEM LABORATORIES
Sample Condition Form

Received By: CAN | Reviewed By: SN | Date: 6/25/10 | Mitkem Work Order #: J1299

Client Project: Verona | Client: LU

1) Cooler Sealed (Yes) No

2) Custody Seal(s) (Present) / Absent
(Coolers) / Bottles
(Intact) Broken

3) Custody Seal Number(s) NA

4) Chain-of-Custody (Present) / Absent

5) Cooler Temperature 6 .5 c
IR Temp Gun ID MT-1
Coolant Condition ICE

6) Airbill(s) (Present) / Absent
Airbill Number(s) UPS
A371934666 87

7) Samples Bottles (Intact) Broken / Leaking

8) Date Received 6/25/10

9) Time Received 11:42

Preservative Name/Lot No.:

Lab Sample ID		Preservation (pH) HNO_3	H_2SO_4	HCl	NaOH	H_3PO_4	VOA Matrix	Soil Headspace or Air Bubble ≥ 1/4"
J1299	07	<2					A	
	08							
	09							
	10							
	11							
	12							
	13							
	14							
	15							
	16	<2						
J1299	17						H	

CAN 6-25-10

VOA Matrix Key:

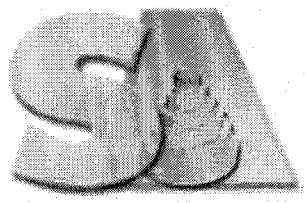
US = Unpreserved Soil	A = Air
UA = Unpreserved Aqueous	H = HCl
M = MeOH	E = Encore
N = NaHSO4	F = Freeze

See Sample Condition Notification/Corrective Action Form yes / (no)

Form ID: QAF.0006 | Rad OK (yes) / no

Y:\Controlled Forms\sample condition form

MITKEM LABORATORIES



* Volatiles *

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1253E

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5742.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	0.84	J
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1253E

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5742.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1253F

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5743.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1253F

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5743.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1253G

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5744.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1253G

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5744.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1253H

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-04A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5745.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	1.8	J
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	0.67	J
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1253H

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-04A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5745.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1253HMS

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-04AMS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5807.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2010

% Moisture: not dec. Date Analyzed: 07/06/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	45	
75-01-4	Vinyl chloride	49	
74-83-9	Bromomethane	55	
75-00-3	Chloroethane	52	
75-69-4	Trichlorofluoromethane	55	
75-35-4	1,1-Dichloroethene	49	
75-09-2	Methylene chloride	52	
156-60-5	trans-1,2-Dichloroethene	42	
75-34-3	1,1-Dichloroethane	44	
156-59-2	cis-1,2-Dichloroethene	43	
67-66-3	Chloroform	45	
71-55-6	1,1,1-Trichloroethane	43	
56-23-5	Carbon tetrachloride	45	
107-06-2	1,2-Dichloroethane	49	
71-43-2	Benzene	46	
79-01-6	Trichloroethene	40	
78-87-5	1,2-Dichloropropane	47	
75-27-4	Bromodichloromethane	45	
10061-01-5	cis-1,3-Dichloropropene	41	
108-88-3	Toluene	45	
10061-02-6	trans-1,3-Dichloropropene	44	
79-00-5	1,1,2-Trichloroethane	48	
127-18-4	Tetrachloroethene	41	B
124-48-1	Dibromochloromethane	46	J
108-90-7	Chlorobenzene	45	
100-41-4	Ethylbenzene	44	
1330-20-7	m,p-Xylene	93	
95-47-6	o-Xylene	45	
1330-20-7	Xylene (Total)	140	
75-25-2	Bromoform	51	
79-34-5	1,1,2,2-Tetrachloroethane	45	
541-73-1	1,3-Dichlorobenzene	41	
106-46-7	1,4-Dichlorobenzene	42	
95-50-1	1,2-Dichlorobenzene	43	
110-75-8	2-Chloroethyl vinyl ether	1.1	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1253HMS

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-04AMS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5807.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2010

% Moisture: not dec. Date Analyzed: 07/06/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	260	
107-13-1	Acrylonitrile	51	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1253HMSD

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-04AMSD

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5808.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2010

% Moisture: not dec. Date Analyzed: 07/06/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	48	
75-01-4	Vinyl chloride	51	
74-83-9	Bromomethane	54	
75-00-3	Chloroethane	51	
75-69-4	Trichlorofluoromethane	61	
75-35-4	1,1-Dichloroethene	50	
75-09-2	Methylene chloride	49	
156-60-5	trans-1,2-Dichloroethene	45	
75-34-3	1,1-Dichloroethane	46	
156-59-2	cis-1,2-Dichloroethene	45	
67-66-3	Chloroform	45	
71-55-6	1,1,1-Trichloroethane	45	
56-23-5	Carbon tetrachloride	46	
107-06-2	1,2-Dichloroethane	52	
71-43-2	Benzene	48	
79-01-6	Trichloroethene	43	
78-87-5	1,2-Dichloropropane	48	
75-27-4	Bromodichloromethane	48	
10061-01-5	cis-1,3-Dichloropropene	45	
108-88-3	Toluene	46	
10061-02-6	trans-1,3-Dichloropropene	46	
79-00-5	1,1,2-Trichloroethane	49	
127-18-4	Tetrachloroethene	42	B
124-48-1	Dibromochloromethane	50	
108-90-7	Chlorobenzene	46	
100-41-4	Ethylbenzene	47	
1330-20-7	m,p-Xylene	100	
95-47-6	o-Xylene	51	
1330-20-7	Xylene (Total)	150	
75-25-2	Bromoform	54	
79-34-5	1,1,2,2-Tetrachloroethane	45	
541-73-1	1,3-Dichlorobenzene	42	
106-46-7	1,4-Dichlorobenzene	42	
95-50-1	1,2-Dichlorobenzene	44	
110-75-8	2-Chloroethyl vinyl ether	1.2	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1253HMSD

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-04AMSD

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5808.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2010

% Moisture: not dec. Date Analyzed: 07/06/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	280	
107-13-1	Acrylonitrile	51	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1253I

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-05A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5746.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	0.77	J
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.4	J
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1253I

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-05A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5746.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-06A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5740.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

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Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-06A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5740.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/24/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1231C

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-07A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5747.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	0.75	J
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.4	J
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	3.7	J
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1231C

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-07A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5747.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1231E

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-08A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5748.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.4	
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1231E

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-08A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5748.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1231EXD

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-09A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5749.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.3	
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1231EXD

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-09A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5749.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1231F

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-10A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5750.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	0.63	J
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.1	J
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	2.3	J
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	8.7	
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	1.2	J
106-46-7	1,4-Dichlorobenzene	2.6	J
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1231F

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-10A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5750.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1231G

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-11A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5751.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1231G

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-11A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5751.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1231H

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-12A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5752.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	1.5	J
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	0.78	J
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1231H

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-12A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5752.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1231I

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-13A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5753.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW1231I

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-13A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5753.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SW-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-14A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5754.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SW-01

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-14A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5754.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SW-02

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-15A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5755.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SW-02

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-15A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5755.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SW-03

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-16A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5756.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SW-03

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-16A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5756.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-17A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5741.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1299-17A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5741.D

Level: (TRACE/LOW/MED) LOW Date Received: 06/25/2010

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-52785

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-52785

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5734.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	37	
75-01-4	Vinyl chloride	36	
74-83-9	Bromomethane	36	
75-00-3	Chloroethane	34	
75-69-4	Trichlorofluoromethane	40	
75-35-4	1,1-Dichloroethene	35	
75-09-2	Methylene chloride	33	
156-60-5	trans-1,2-Dichloroethene	38	
75-34-3	1,1-Dichloroethane	38	
156-59-2	cis-1,2-Dichloroethene	38	
67-66-3	Chloroform	37	
71-55-6	1,1,1-Trichloroethane	37	
56-23-5	Carbon tetrachloride	37	
107-06-2	1,2-Dichloroethane	38	
71-43-2	Benzene	39	
79-01-6	Trichloroethene	37	
78-87-5	1,2-Dichloropropane	38	
75-27-4	Bromodichloromethane	39	
10061-01-5	cis-1,3-Dichloropropene	41	
108-88-3	Toluene	38	
10061-02-6	trans-1,3-Dichloropropene	40	
79-00-5	1,1,2-Trichloroethane	37	
127-18-4	Tetrachloroethene	36	
124-48-1	Dibromochloromethane	38	
108-90-7	Chlorobenzene	37	
100-41-4	Ethylbenzene	40	
1330-20-7	m,p-Xylene	80	
95-47-6	o-Xylene	41	
1330-20-7	Xylene (Total)	120	
75-25-2	Bromoform	38	
79-34-5	1,1,2,2-Tetrachloroethane	35	
541-73-1	1,3-Dichlorobenzene	38	
106-46-7	1,4-Dichlorobenzene	36	
95-50-1	1,2-Dichlorobenzene	38	
110-75-8	2-Chloroethyl vinyl ether	40	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-52785

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-52785

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5734.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	170	
107-13-1	Acrylonitrile	37	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-52794

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-52794

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5784.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/06/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	47	
75-01-4	Vinyl chloride	46	
74-83-9	Bromomethane	48	
75-00-3	Chloroethane	50	
75-69-4	Trichlorofluoromethane	61	
75-35-4	1,1-Dichloroethene	48	
75-09-2	Methylene chloride	50	
156-60-5	trans-1,2-Dichloroethene	44	
75-34-3	1,1-Dichloroethane	42	
156-59-2	cis-1,2-Dichloroethene	40	
67-66-3	Chloroform	43	
71-55-6	1,1,1-Trichloroethane	45	
56-23-5	Carbon tetrachloride	50	
107-06-2	1,2-Dichloroethane	47	
71-43-2	Benzene	43	
79-01-6	Trichloroethene	37	
78-87-5	1,2-Dichloropropane	46	
75-27-4	Bromodichloromethane	44	
10061-01-5	cis-1,3-Dichloropropene	41	
108-88-3	Toluene	41	
10061-02-6	trans-1,3-Dichloropropene	43	
79-00-5	1,1,2-Trichloroethane	47	
127-18-4	Tetrachloroethene	41	
124-48-1	Dibromochloromethane	48	
108-90-7	Chlorobenzene	43	
100-41-4	Ethylbenzene	41	
1330-20-7	m,p-Xylene	88	
95-47-6	o-Xylene	43	
1330-20-7	Xylene (Total)	130	
75-25-2	Bromoform	52	
79-34-5	1,1,2,2-Tetrachloroethane	46	
541-73-1	1,3-Dichlorobenzene	37	
106-46-7	1,4-Dichlorobenzene	39	
95-50-1	1,2-Dichlorobenzene	39	
110-75-8	2-Chloroethyl vinyl ether	34	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-52794

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-52794

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5784.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/06/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	280	
107-13-1	Acrylonitrile	63	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCSD-52794

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-52794

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5785.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/06/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	55	
75-01-4	Vinyl chloride	48	
74-83-9	Bromomethane	63	
75-00-3	Chloroethane	54	
75-69-4	Trichlorofluoromethane	71	
75-35-4	1,1-Dichloroethene	54	
75-09-2	Methylene chloride	54	
156-60-5	trans-1,2-Dichloroethene	48	
75-34-3	1,1-Dichloroethane	48	
156-59-2	cis-1,2-Dichloroethene	47	
67-66-3	Chloroform	49	
71-55-6	1,1,1-Trichloroethane	46	
56-23-5	Carbon tetrachloride	52	
107-06-2	1,2-Dichloroethane	50	
71-43-2	Benzene	49	
79-01-6	Trichloroethene	42	
78-87-5	1,2-Dichloropropane	50	
75-27-4	Bromodichloromethane	49	
10061-01-5	cis-1,3-Dichloropropene	46	
108-88-3	Toluene	47	
10061-02-6	trans-1,3-Dichloropropene	48	
79-00-5	1,1,2-Trichloroethane	51	
127-18-4	Tetrachloroethene	46	
124-48-1	Dibromochloromethane	53	
108-90-7	Chlorobenzene	49	
100-41-4	Ethylbenzene	48	
1330-20-7	m,p-Xylene	100	
95-47-6	o-Xylene	50	
1330-20-7	Xylene (Total)	150	
75-25-2	Bromoform	58	
79-34-5	1,1,2,2-Tetrachloroethane	48	
541-73-1	1,3-Dichlorobenzene	41	
106-46-7	1,4-Dichlorobenzene	43	
95-50-1	1,2-Dichlorobenzene	43	
110-75-8	2-Chloroethyl vinyl ether	36	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCSD-52794

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-52794

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5785.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/06/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	280	
107-13-1	Acrylonitrile	59	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-52785

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-52785

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5736.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-52785

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-52785

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5736.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/03/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-52794

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-52794

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5787.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/06/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	0.57	J
124-48-1	Dibromochloromethane	50	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
75-25-2	Bromoform	50	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-52794

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-52794

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6H5787.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/06/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µG/L	Q
107-02-8	Acrolein	5.0	U
107-13-1	Acrylonitrile	5.0	U

2B - FORM II VOA-2

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Level: (TRACE or LOW) LOW

	CLIENT SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-52785	99	103	101	102				0
02	MB-52785	97	99	101	94				0
03	TRIP BLANK	99	93	98	91				0
04	TRIP BLANK	99	99	102	91				0
05	MW1253E	102	105	101	89				0
06	MW1253F	100	101	100	89				0
07	MW1253G	99	101	101	93				0
08	MW1253H	99	97	101	89				0
09	MW1253I	100	100	102	91				0
10	MW1231C	100	96	100	88				0
11	MW1231E	99	101	102	90				0
12	MW1231EXD	100	101	100	90				0
13	MW1231F	99	99	101	91				0
14	MW1231G	104	96	101	88				0
15	MW1231H	99	97	103	89				0
16	MW1231I	101	99	101	89				0
17	SW-01	102	101	101	87				0
18	SW-02	99	95	102	90				0
19	SW-03	101	101	101	86				0
20	LCS-52794	106	107	103	100				0
21	LCS-52794	103	108	102	100				0
22	LCSD-52794	105	106	102	103				0
23	LCSD-52794	104	106	102	103				0
24	MB-52794	110	114	99	83				0
25	MB-52794	113	114	100	84				0
26	MW1253HMS	101	103	99	100				0
27	MW1253HMSD	100	96	98	101				0

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(85-115)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(70-120)
VDMC3	(TOL) = Toluene-d8	(85-120)
VDMC4	(BFB) = Bromofluorobenzene	(75-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix Spike - EPA Sample No.: MW1253H Level: (TRACE or LOW) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS %REC	#	QC. LIMITS REC.
Chloromethane	50.0000	0.0000	44.6575	89		60-118
Vinyl chloride	50.0000	1.7974	48.8539	94		65-113
Bromomethane	50.0000	0.0000	55.3493	111		73-122
Chloroethane	50.0000	0.0000	51.8342	104		72-118
Trichlorofluoromethane	50.0000	0.0000	54.9395	110		68-129
1,1-Dichloroethene	50.0000	0.0000	49.0669	98		67-121
Methylene chloride	50.0000	0.0000	51.6676	103		59-132
trans-1,2-Dichloroethene	50.0000	0.0000	42.4814	85		71-124
1,1-Dichloroethane	50.0000	0.6696	43.9424	87		83-116
cis-1,2-Dichloroethene	50.0000	0.0000	42.8893	86		83-120
Chloroform	50.0000	0.0000	44.5025	89		89-118
1,1,1-Trichloroethane	50.0000	0.0000	42.8486	86		81-122
Carbon tetrachloride	50.0000	0.0000	44.5879	89		79-125
1,2-Dichloroethane	50.0000	0.0000	49.1559	98		83-123
Benzene	50.0000	0.0000	45.6695	91		81-120
Trichloroethene	50.0000	0.0000	40.3306	81		77-121
1,2-Dichloropropane	50.0000	0.0000	46.8093	94		81-116
Bromodichloromethane	50.0000	0.0000	44.6883	89	*	90-114
cis-1,3-Dichloropropene	50.0000	0.0000	41.3732	83		78-119
Toluene	50.0000	0.0000	44.7588	90		81-121
trans-1,3-Dichloropropene	50.0000	0.0000	43.7425	87		85-118
1,1,2-Trichloroethane	50.0000	0.0000	48.0863	96		44-159
Tetrachloroethene	50.0000	0.0000	40.9460	82		73-121
Dibromochloromethane	50.0000	0.0000	46.1890	92		80-124
Chlorobenzene	50.0000	0.0000	44.8383	90		82-118
Ethylbenzene	50.0000	0.0000	44.0343	88		80-122
m,p-Xylene	100.0000	0.0000	92.5238	93		70-130
o-Xylene	50.0000	0.0000	45.4041	91		70-130
Xylene (Total)	150.0000	0.0000	137.9279	92		81-121
Bromoform	50.0000	0.0000	50.8767	102		77-130
1,1,2,2-Tetrachloroethane	50.0000	0.0000	45.1553	90		76-125
1,3-Dichlorobenzene	50.0000	0.0000	40.5658	81		80-116
1,4-Dichlorobenzene	50.0000	0.0000	42.4878	85		80-114
1,2-Dichlorobenzene	50.0000	0.0000	43.0544	86		81-116
2-Chloroethyl vinyl ether	50.0000	0.0000	1.0644	2		0-169
Acrolein	250.0000	0.0000	261.5287	105		12-133
Acrylonitrile	50.0000	0.0000	51.0168	102		45-172

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Chloromethane	50.0000	47.6435	95		6		0-40	60-118
Vinyl chloride	50.0000	51.0753	99		5		0-40	65-113
Bromomethane	50.0000	54.2368	108		2		0-40	73-122

3A - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Matrix Spike - EPA Sample No.: MW1253H Level: (TRACE or LOW) LOW

Chloroethane	50.0000	51.2592	103		1		0-40	72-118
Trichlorofluoromethane	50.0000	60.5274	121		10		0-40	68-129
1,1-Dichloroethene	50.0000	49.6110	99		1		0-40	67-121
Methylene chloride	50.0000	49.0589	98		5		0-40	59-132
trans-1,2-Dichloroethene	50.0000	44.5873	89		5		0-40	71-124
1,1-Dichloroethane	50.0000	45.5971	90		4		0-40	83-116
cis-1,2-Dichloroethene	50.0000	44.8295	90		4		0-40	83-120
Chloroform	50.0000	44.6588	89		0		0-40	89-118
1,1,1-Trichloroethane	50.0000	44.5545	89		4		0-40	81-122
Carbon tetrachloride	50.0000	45.8898	92		3		0-40	79-125
1,2-Dichloroethane	50.0000	51.8815	104		5		0-40	83-123
Benzene	50.0000	47.6785	95		4		0-40	81-120
Trichloroethene	50.0000	42.6876	85		6		0-40	77-121
1,2-Dichloropropane	50.0000	47.8172	96		2		0-40	81-116
Bromodichloromethane	50.0000	48.0497	96		7		0-40	90-114
cis-1,3-Dichloropropene	50.0000	45.0073	90		8		0-40	78-119
Toluene	50.0000	45.9910	92		3		0-40	81-121
trans-1,3-Dichloropropene	50.0000	46.1708	92		5		0-40	85-118
1,1,2-Trichloroethane	50.0000	49.1721	98		2		0-40	44-159
Tetrachloroethene	50.0000	42.0175	84		3		0-40	73-121
Dibromochloromethane	50.0000	50.3198	101		9		0-40	80-124
Chlorobenzene	50.0000	46.4288	93		3		0-40	82-118
Ethylbenzene	50.0000	47.4152	95		7		0-40	80-122
m,p-Xylene	100.0000	100.3005	100		8		0-40	70-130
o-Xylene	50.0000	51.0952	102		12		0-40	70-130
Xylene (Total)	150.0000	151.3957	101		9		0-40	81-121
Bromoform	50.0000	54.0059	108		6		0-40	77-130
1,1,2,2-Tetrachloroethane	50.0000	44.8080	90		1		0-40	76-125
1,3-Dichlorobenzene	50.0000	42.1777	84		4		0-40	80-116
1,4-Dichlorobenzene	50.0000	42.1251	84		1		0-40	80-114
1,2-Dichlorobenzene	50.0000	44.0817	88		2		0-40	81-116
2-Chloroethyl vinyl ether	50.0000	1.2262	2		14		0-40	0-169
Acrolein	250.0000	279.2502	112		7		0-40	12-133
Acrylonitrile	50.0000	51.2892	103		1		0-40	45-172

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 37 outside limits

Spike Recovery: 1 out of 74 outside limits

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE RECOVERY

CLIENT SAMPLE NO.

LCS-52785

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Lab Sample ID: LCS-52785 LCS Lot No.:

Date Extracted: 07/03/2010 Date Analyzed (1): 07/03/2010

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Chloromethane	50.0000	0.0000	36.7550	74		1 - 273
Vinyl chloride	50.0000	0.0000	35.9199	72		1 - 251
Bromomethane	50.0000	0.0000	36.2397	72		1 - 242
Chloroethane	50.0000	0.0000	34.4618	69		14 - 230
Trichlorofluoromethane	50.0000	0.0000	40.4703	81		17 - 181
1,1-Dichloroethene	50.0000	0.0000	35.2490	70		1 - 234
Methylene chloride	50.0000	0.0000	32.7713	66		1 - 221
trans-1,2-Dichloroethene	50.0000	0.0000	37.8090	76		54 - 156
1,1-Dichloroethane	50.0000	0.0000	37.7061	75		59 - 155
cis-1,2-Dichloroethene	50.0000	0.0000	38.3248	77	*	83 - 120
Chloroform	50.0000	0.0000	36.7883	74		51 - 138
1,1,1-Trichloroethane	50.0000	0.0000	36.8828	74		52 - 162
Carbon tetrachloride	50.0000	0.0000	37.1462	74		70 - 140
1,2-Dichloroethane	50.0000	0.0000	37.7966	76		49 - 155
Benzene	50.0000	0.0000	38.7209	77		37 - 151
Trichloroethene	50.0000	0.0000	37.4541	75		71 - 157
1,2-Dichloropropane	50.0000	0.0000	37.7176	75		1 - 210
Bromodichloromethane	50.0000	0.0000	38.9831	78		35 - 155
cis-1,3-Dichloropropene	50.0000	0.0000	40.5027	81		1 - 227
Toluene	50.0000	0.0000	38.1206	76		47 - 150
trans-1,3-Dichloropropene	50.0000	0.0000	40.0111	80		17 - 183
1,1,2-Trichloroethane	50.0000	0.0000	36.9633	74		52 - 150
Tetrachloroethene	50.0000	0.0000	36.4289	73		64 - 148
Dibromochloromethane	50.0000	0.0000	37.6877	75		53 - 149
Chlorobenzene	50.0000	0.0000	37.3971	75		37 - 150
Ethylbenzene	50.0000	0.0000	39.8354	80		37 - 162
m,p-Xylene	100.0000	0.0000	79.9830	80		70 - 130
o-Xylene	50.0000	0.0000	41.3975	83		70 - 130
Xylene (Total)	150.0000	0.0000	121.3805	81	*	81 - 121
Bromoform	50.0000	0.0000	37.7693	76		45 - 169
1,1,2,2-Tetrachloroethane	50.0000	0.0000	34.5785	69		46 - 157
1,3-Dichlorobenzene	50.0000	0.0000	38.2350	76		59 - 156
1,4-Dichlorobenzene	50.0000	0.0000	35.8487	72		18 - 190
1,2-Dichlorobenzene	50.0000	0.0000	38.0832	76		18 - 190
2-Chloroethyl vinyl ether	50.0000	0.0000	40.1594	80		1 - 305
Acrolein	250.0000	0.0000	172.7891	69		12 - 133
Acrylonitrile	50.0000	0.0000	36.7601	74		45 - 172

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 37 outside limits

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE RECOVERY

CLIENT SAMPLE NO.

LCS-52785

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Lab Sample ID: LCS-52785 LCS Lot No.:

Date Extracted: 07/03/2010 Date Analyzed (1): 07/03/2010

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE RECOVERY

CLIENT SAMPLE NO.

LCS-52794

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Lab Sample ID: LCS-52794 LCS Lot No.:

Date Extracted: 07/06/2010 Date Analyzed (1): 07/06/2010

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Chloromethane	50.0000	0.0000	46.7172	93		1 - 273
Vinyl chloride	50.0000	0.0000	45.8324	92		1 - 251
Bromomethane	50.0000	0.0000	48.3202	97		1 - 242
Chloroethane	50.0000	0.0000	49.6758	99		14 - 230
Trichlorofluoromethane	50.0000	0.0000	60.8874	122		17 - 181
1,1-Dichloroethene	50.0000	0.0000	48.4918	97		1 - 234
Methylene chloride	50.0000	0.0000	50.0129	100		1 - 221
trans-1,2-Dichloroethene	50.0000	0.0000	43.7800	88		54 - 156
1,1-Dichloroethane	50.0000	0.0000	42.3605	85		59 - 155
cis-1,2-Dichloroethene	50.0000	0.0000	40.3206	81	*	83 - 120
Chloroform	50.0000	0.0000	43.1934	86		51 - 138
1,1,1-Trichloroethane	50.0000	0.0000	45.1939	90		52 - 162
Carbon tetrachloride	50.0000	0.0000	49.7716	100		70 - 140
1,2-Dichloroethane	50.0000	0.0000	46.6477	93		49 - 155
Benzene	50.0000	0.0000	42.9842	86		37 - 151
Trichloroethene	50.0000	0.0000	37.0152	74		71 - 157
1,2-Dichloropropane	50.0000	0.0000	46.1951	92		1 - 210
Bromodichloromethane	50.0000	0.0000	43.5051	87		35 - 155
cis-1,3-Dichloropropene	50.0000	0.0000	40.5201	81		1 - 227
Toluene	50.0000	0.0000	41.0444	82		47 - 150
trans-1,3-Dichloropropene	50.0000	0.0000	42.7422	85		17 - 183
1,1,2-Trichloroethane	50.0000	0.0000	47.3373	95		52 - 150
Tetrachloroethene	50.0000	0.0000	40.8259	82		64 - 148
Dibromochloromethane	50.0000	0.0000	48.0951	96		53 - 149
Chlorobenzene	50.0000	0.0000	43.2341	86		37 - 150
Ethylbenzene	50.0000	0.0000	41.0874	82		37 - 162
m,p-Xylene	100.0000	0.0000	87.8749	88		70 - 130
o-Xylene	50.0000	0.0000	43.2471	86		70 - 130
Xylene (Total)	150.0000	0.0000	131.1220	87		81 - 121
Bromoform	50.0000	0.0000	51.7741	104		45 - 169
1,1,2,2-Tetrachloroethane	50.0000	0.0000	45.9979	92		46 - 157
1,3-Dichlorobenzene	50.0000	0.0000	36.8717	74		59 - 156
1,4-Dichlorobenzene	50.0000	0.0000	39.0979	78		18 - 190
1,2-Dichlorobenzene	50.0000	0.0000	38.7880	78		18 - 190
2-Chloroethyl vinyl ether	50.0000	0.0000	34.2268	68		1 - 305
Acrolein	250.0000	0.0000	284.8203	114		12 - 133
Acrylonitrile	50.0000	0.0000	63.1353	126		45 - 172

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 37 outside limits

3 - FORM III

WATER LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.

LCS-52794

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Lab Sample ID: LCS-52794 LCS Lot No.:

Date Extracted: 07/06/2010 Date Analyzed (1): 07/06/2010

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-52794

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Lab Sample ID: LCSD-52794 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Chloromethane	50.0000	54.8012	110		17		40	1 - 273
Vinyl chloride	50.0000	48.3016	97		5		40	1 - 251
Bromomethane	50.0000	63.0869	126		26		40	1 - 242
Chloroethane	50.0000	53.9074	108		9		40	14 - 230
Trichlorofluoromethane	50.0000	71.1139	142		15		40	17 - 181
1,1-Dichloroethene	50.0000	53.5202	107		10		40	1 - 234
Methylene chloride	50.0000	54.4059	109		9		40	1 - 221
trans-1,2-Dichloroethene	50.0000	48.3318	97		10		40	54 - 156
1,1-Dichloroethane	50.0000	47.6050	95		11		40	59 - 155
cis-1,2-Dichloroethene	50.0000	46.6418	93		14		40	83 - 120
Chloroform	50.0000	48.5523	97		12		40	51 - 138
1,1,1-Trichloroethane	50.0000	46.2690	93		3		40	52 - 162
Carbon tetrachloride	50.0000	51.6763	103		3		40	70 - 140
1,2-Dichloroethane	50.0000	49.8346	100		7		40	49 - 155
Benzene	50.0000	49.0429	98		13		40	37 - 151
Trichloroethene	50.0000	42.1372	84		13		40	71 - 157
1,2-Dichloropropane	50.0000	50.3560	101		9		40	1 - 210
Bromodichloromethane	50.0000	48.6691	97		11		40	35 - 155
cis-1,3-Dichloropropene	50.0000	46.3796	93		14		40	1 - 227
Toluene	50.0000	46.9512	94		14		40	47 - 150
trans-1,3-Dichloropropene	50.0000	47.7179	95		11		40	17 - 183
1,1,2-Trichloroethane	50.0000	51.1194	102		7		40	52 - 150
Tetrachloroethene	50.0000	46.3987	93		13		40	64 - 148
Dibromochloromethane	50.0000	52.6120	105		9		40	53 - 149
Chlorobenzene	50.0000	48.5920	97		12		40	37 - 150
Ethylbenzene	50.0000	47.6717	95		15		40	37 - 162
m,p-Xylene	100.0000	102.6286	103		16		40	70 - 130
o-Xylene	50.0000	50.0123	100		15		40	70 - 130
Xylene (Total)	150.0000	152.6410	102		16		40	81 - 121
Bromoform	50.0000	58.1448	116		11		40	45 - 169
1,1,2,2-Tetrachloroethane	50.0000	47.5632	95		3		40	46 - 157
1,3-Dichlorobenzene	50.0000	41.2250	82		10		40	59 - 156
1,4-Dichlorobenzene	50.0000	43.0410	86		10		40	18 - 190
1,2-Dichlorobenzene	50.0000	43.4133	87		11		40	18 - 190
2-Chloroethyl vinyl ether	50.0000	35.5713	71		4		40	1 - 305
Acrolein	250.0000	279.0066	112		2		40	12 - 133
Acrylonitrile	50.0000	59.4010	119		6		40	45 - 172

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 37 outside limits

Spike Recovery: 0 out of 37 outside limits

3 - FORM III

WATER LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-52794

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Lab Sample ID: LCSD-52794 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC #	%RPD #	QC LIMITS RPD	QC LIMITS REC.

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-52785

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Lab File ID: V6H5736.D Lab Sample ID: MB-52785

Instrument ID: V6

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 07/03/2010

Level: (TRACE or LOW/MED) LOW Time Analyzed: 12:18

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-52785	LCS-52785	V6H5734.D	11:22
02	TRIP BLANK	J1299-06A	V6H5740.D	14:11
03	TRIP BLANK	J1299-17A	V6H5741.D	14:38
04	MW1253E	J1299-01A	V6H5742.D	15:06
05	MW1253F	J1299-02A	V6H5743.D	15:34
06	MW1253G	J1299-03A	V6H5744.D	16:01
07	MW1253H	J1299-04A	V6H5745.D	16:29
08	MW1253I	J1299-05A	V6H5746.D	16:57
09	MW1231C	J1299-07A	V6H5747.D	17:24
10	MW1231E	J1299-08A	V6H5748.D	17:52
11	MW1231EXD	J1299-09A	V6H5749.D	18:20
12	MW1231F	J1299-10A	V6H5750.D	18:48
13	MW1231G	J1299-11A	V6H5751.D	19:15
14	MW1231H	J1299-12A	V6H5752.D	19:43
15	MW1231I	J1299-13A	V6H5753.D	20:11
16	SW-01	J1299-14A	V6H5754.D	20:38
17	SW-02	J1299-15A	V6H5755.D	21:06
18	SW-03	J1299-16A	V6H5756.D	21:34

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-52794

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Lab File ID: V6H5787.D Lab Sample ID: MB-52794

Instrument ID: V6

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 07/06/2010

Level: (TRACE or LOW/MED) LOW Time Analyzed: 11:56

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-52794	LCS-52794	V6H5784.D	10:01
02	LCSD-52794	LCSD-52794	V6H5785.D	10:46
03	MW1253HMS	J1299-04AMS	V6H5807.D	22:58
04	MW1253HMSD	J1299-04AMSD	V6H5808.D	23:26

COMMENTS:

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.
BFB6R

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Lab File ID: V6H5720.D BFB Injection Date: 07/02/2010

Instrument ID: V6 BFB Injection Time: 14:37

GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.1
75	30.0 - 60.0% of mass 95	43.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.7
173	Less than 2.0% of mass 174	0.5 (0.5)1
174	50.0 - 100.0% of mass 95	94.4
175	5.0 - 9.0% of mass 174	5.8 (6.1)1
176	95.0 - 101.0% of mass 174	90.6 (96.0)1
177	5.0 - 9.0% of mass 176	5.8 (6.5)2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506R	VSTD0506R	V6H5722.D	07/02/2010	15:33
02	VSTD0206R	VSTD0206R	V6H5723.D	07/02/2010	16:00
03	VSTD0056R	VSTD0056R	V6H5724.D	07/02/2010	16:28
04	VSTD0016R	VSTD0016R	V6H5726.D	07/02/2010	17:24
05	VSTD2006R	VSTD2006R	V6H5727.D	07/02/2010	17:51
06	VSTD1006R	VSTD1006R	V6H5728.D	07/02/2010	18:19

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.
BFB6S

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Lab File ID: V6H5730.D BFB Injection Date: 07/03/2010

Instrument ID: V6 BFB Injection Time: 9:34

GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.1
75	30.0 - 60.0% of mass 95	50.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	63.1
175	5.0 - 9.0% of mass 174	5.1 (8.0)1
176	95.0 - 101.0% of mass 174	60.3 (95.6)1
177	5.0 - 9.0% of mass 176	3.9 (6.5)2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506S	VSTD0506S	V6H5731.D	07/03/2010	9:50
02	LCS-52785	LCS-52785	V6H5734.D	07/03/2010	11:22
03	MB-52785	MB-52785	V6H5736.D	07/03/2010	12:18
04	TRIP BLANK	J1299-06A	V6H5740.D	07/03/2010	14:11
05	TRIP BLANK	J1299-17A	V6H5741.D	07/03/2010	14:38
06	MW1253E	J1299-01A	V6H5742.D	07/03/2010	15:06
07	MW1253F	J1299-02A	V6H5743.D	07/03/2010	15:34
08	MW1253G	J1299-03A	V6H5744.D	07/03/2010	16:01
09	MW1253H	J1299-04A	V6H5745.D	07/03/2010	16:29
10	MW1253I	J1299-05A	V6H5746.D	07/03/2010	16:57
11	MW1231C	J1299-07A	V6H5747.D	07/03/2010	17:24
12	MW1231E	J1299-08A	V6H5748.D	07/03/2010	17:52
13	MW1231EXD	J1299-09A	V6H5749.D	07/03/2010	18:20
14	MW1231F	J1299-10A	V6H5750.D	07/03/2010	18:48
15	MW1231G	J1299-11A	V6H5751.D	07/03/2010	19:15
16	MW1231H	J1299-12A	V6H5752.D	07/03/2010	19:43
17	MW1231I	J1299-13A	V6H5753.D	07/03/2010	20:11
18	SW-01	J1299-14A	V6H5754.D	07/03/2010	20:38
19	SW-02	J1299-15A	V6H5755.D	07/03/2010	21:06
20	SW-03	J1299-16A	V6H5756.D	07/03/2010	21:34

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

CLIENT SAMPLE NO.
BFB6U

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Lab File ID: V6H5781.D BFB Injection Date: 07/06/2010

Instrument ID: V6 BFB Injection Time: 8:16

GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.9
75	30.0 - 60.0% of mass 95	45.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	88.5
175	5.0 - 9.0% of mass 174	6.3 (7.1)1
176	95.0 - 101.0% of mass 174	84.5 (95.5)1
177	5.0 - 9.0% of mass 176	5.3 (6.3)2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506U	VSTD0506U	V6H5782.D	07/06/2010	8:55
02	LCS-52794	LCS-52794	V6H5784.D	07/06/2010	10:01
03	LCSD-52794	LCSD-52794	V6H5785.D	07/06/2010	10:46
04	MB-52794	MB-52794	V6H5787.D	07/06/2010	11:56
05	MW1253HMS	J1299-04AMS	V6H5807.D	07/06/2010	22:58
06	MW1253HMSD	J1299-04AMSD	V6H5808.D	07/06/2010	23:26

6B - FORM VI VOA-2

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 SAS No.: SDG No.: SJ1299TOTAL

Instrument ID: V6 Calibration Date(s): 07/02/2010 07/02/2010

Heated Purge: (Y/N) N Calibration Times: 15:33 18:19

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V6H5724.D RRF020 = V6H5723.D RRF050 = V6H5722.D RRF100 = V6H5728.D RRF200 = V6H5727.D
RRF001 = V6H5726.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001					RRF	% RSD
Chloromethane	0.549	0.590	0.514	0.540	0.535	0.551					0.546	4.6
Vinyl chloride	0.392	0.428	0.357	0.387	0.372	0.412					0.391	6.6
Bromomethane	0.189	0.218	0.179	0.189	0.188	0.237					0.200	11.2
Chloroethane	0.207	0.214	0.171	0.172	0.173	0.213					0.192	11.1
Trichlorofluoromethane	0.374	0.464	0.397	0.452	0.444	0.301					0.405	15.2
1,1-Dichloroethene	0.294	0.318	0.257	0.282	0.280	0.351					0.297	11.2
Methylene chloride	0.305	0.320	0.252	0.269	0.258	0.449					0.309	23.8
trans-1,2-Dichloroethene	0.289	0.329	0.276	0.297	0.294	0.287					0.295	6.2
1,1-Dichloroethane	0.558	0.639	0.542	0.571	0.567	0.556					0.572	6.0
cis-1,2-Dichloroethene	0.309	0.362	0.311	0.328	0.322	0.311					0.324	6.2
Chloroform	0.523	0.596	0.504	0.533	0.527	0.583					0.544	6.7
1,1,1-Trichloroethane	0.392	0.446	0.375	0.407	0.395	0.413					0.405	5.9
Carbon tetrachloride	0.324	0.376	0.317	0.351	0.341	0.342					0.342	6.1
1,2-Dichloroethane	0.381	0.444	0.377	0.394	0.390	0.385					0.395	6.3
Benzene	1.122	1.318	1.113	1.187	1.132	1.159					1.172	6.5
Trichloroethene	0.307	0.359	0.307	0.330	0.332	0.319					0.326	6.0
1,2-Dichloropropane	0.343	0.390	0.341	0.364	0.349	0.363					0.358	5.1
Bromodichloromethane	0.356	0.423	0.360	0.381	0.385	0.359					0.377	6.8
cis-1,3-Dichloropropene	0.356	0.462	0.417	0.452	0.456	0.342					0.414	12.8
Toluene	1.248	1.477	1.264	1.357	1.321	1.291					1.326	6.3
trans-1,3-Dichloropropene	0.322	0.412	0.358	0.394	0.404	0.285					0.362	13.9
1,1,2-Trichloroethane	0.222	0.271	0.233	0.248	0.248	0.271					0.249	8.0
Tetrachloroethene	0.366	0.400	0.327	0.378	0.370	0.384					0.371	6.6
Dibromochloromethane	0.360	0.426	0.368	0.401	0.410	0.396					0.394	6.4
Chlorobenzene	1.131	1.279	1.088	1.143	1.098	1.231					1.162	6.6
Ethylbenzene	0.515	0.656	0.565	0.609	0.593	0.515					0.576	9.6
m,p-Xylene	0.668	0.818	0.703	0.755	0.722	1.191					0.810	23.9

USGS

6C - FORM VI VOA-3

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 SAS No.: SDG No.: SJ1299TOTAL

Instrument ID: V6 Calibration Date(s): 07/02/2010 07/02/2010

Heated Purge: (Y/N) N Calibration Times: 15:33 18:19

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V6H5724.D RRF020 = V6H5723.D RRF050 = V6H5722.D RRF100 = V6H5728.D RRF200 = V6H5727.D
RRF001 = V6H5726.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001					RRF	% RSD
o-Xylene	0.586	0.773	0.690	0.747	0.719	0.520					0.673	14.7
Xylene (Total)	0.641	0.803	0.699	0.752	0.721	0.570					0.698	11.8
Bromoform	0.171	0.226	0.203	0.228	0.245	0.195					0.211	12.7
1,1,2,2-Tetrachloroethane	0.716	0.772	0.655	0.688	0.643	1.043					0.753	19.8
1,3-Dichlorobenzene	1.545	1.766	1.531	1.648	1.579	1.689					1.626	5.6
1,4-Dichlorobenzene	1.809	1.896	1.616	1.680	1.612	2.196					1.802	12.4
1,2-Dichlorobenzene	1.475	1.660	1.419	1.531	1.468	1.621					1.529	6.1
2-Chloroethyl vinyl ether	0.089	0.130	0.120	0.132	0.132	0.071					0.112	23.4
Acrolein	0.041	0.051	0.041	0.041	0.041	0.049					0.044	10.5
Acrylonitrile	0.101	0.114	0.095	0.094	0.094	0.100					0.100	7.8

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

6C - FORM VI VOA-3

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 SAS No.: SDG No.: SJ1299TOTAL

Instrument ID: V6 Calibration Date(s): 07/02/2010 07/02/2010

Heated Purge: (Y/N) N Calibration Times: 15:33 18:19

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V6H5724.D RRF020 = V6H5723.D RRF050 = V6H5722.D RRF100 = V6H5728.D RRF200 = V6H5727.D

RRF001 = V6H5726.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200	RRF001					RRF	% RSD
Dibromofluoromethane	0.269	0.269	0.268	0.266	0.270						0.269	0.6
1,2-Dichloroethane-d4	0.039	0.040	0.039	0.039	0.038						0.039	1.6
Toluene-d8	1.297	1.294	1.285	1.270	1.283						1.286	0.8
Bromofluorobenzene	0.494	0.509	0.503	0.510	0.522						0.508	2.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

6C - FORM VI VOA-3

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 SAS No.: SDG No.: SJ1299TOTAL

Instrument ID: V6 Calibration Date(s): 07/02/2010 07/02/2010

Heated Purge: (Y/N) N Calibration Times: 15:33 18:19

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V6H5724.D RRF020 = V6H5723.D RRF050 = V6H5722.D RRF100 = V6H5728.D RRF200 = V6H5727.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200						RRF	% RSD

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

6C - FORM VI VOA-3

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 SAS No.: SDG No.: SJ1299TOTAL

Instrument ID: V6 Calibration Date(s): 07/02/2010 07/02/2010

Heated Purge: (Y/N) N Calibration Times: 15:33 18:19

Purge Volume: 5 (mL)

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (mm)

LAB FILE ID: RRF005 = V6H5724.D RRF020 = V6H5723.D RRF050 = V6H5722.D RRF100 = V6H5728.D RRF200 = V6H5727.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF200						RRF	% RSD

7A - FORM VII VOA-1

VOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Instrument ID: V6 Calibration Date: 07/06/2010 Time: 8:55

Lab File ID: V6H5782.D Init. Calib. Date(s): 07/02/2010 07/02/2010

EPA Sample No.(VSTD#####): VSTD0506U Init. Calib. Time(s): 15:33 18:19

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX %D
Chloromethane	0.552	0.611	0.010	10.6	20.0
Vinyl chloride	0.381	0.382	0.010	0.3	20.0
Bromomethane	0.196	0.233	0.010	19.2	20.0
Chloroethane	0.177	0.194	0.010	9.7	20.0
Trichlorofluoromethane	0.419	0.516	0.010	23.0	20.0
1,1-Dichloroethene	0.282	0.300	0.100	6.3	20.0
Methylene chloride	0.279	0.320	0.010	14.5	20.0
trans-1,2-Dichloroethene	0.298	0.291	0.010	-2.4	20.0
1,1-Dichloroethane	0.573	0.553	0.010	-3.4	20.0
cis-1,2-Dichloroethene	0.324	0.306	0.010	-5.5	20.0
Chloroform	0.534	0.516	0.010	-3.4	20.0
1,1,1-Trichloroethane	0.400	0.352	0.010	-12.1	20.0
Carbon tetrachloride	0.335	0.320	0.010	-4.5	20.0
1,2-Dichloroethane	0.392	0.404	0.010	3.1	20.0
Benzene	1.175	1.139	0.010	-3.1	20.0
Trichloroethene	0.328	0.269	0.010	-18.0	20.0
1,2-Dichloropropane	0.355	0.364	0.010	2.5	20.0
Bromodichloromethane	0.385	0.381	0.010	-0.9	20.0
cis-1,3-Dichloropropene	0.425	0.399	0.010	-6.1	20.0
Toluene	1.323	1.196	0.010	-9.6	20.0
trans-1,3-Dichloropropene	0.370	0.356	0.010	-3.6	20.0
1,1,2-Trichloroethane	0.246	0.256	0.010	4.2	20.0
Tetrachloroethene	0.370	0.317	0.010	-14.2	20.0
Dibromochloromethane	0.393	0.430	0.010	9.4	20.0
Chlorobenzene	1.157	1.110	0.010	-4.0	20.0
Ethylbenzene	0.587	0.528	0.010	-10.1	20.0
m,p-Xylene	0.732	0.709	0.010	-3.1	20.0
o-Xylene	0.702	0.674	0.010	-3.9	20.0
Xylene (Total)	0.722	0.698	0.010	-3.3	20.0
Bromoform	0.215	0.261	0.010	21.5	20.0
1,1,2,2-Tetrachloroethane	0.697	0.717	0.300	3.0	20.0
1,3-Dichlorobenzene	1.606	1.338	0.010	-16.7	20.0
1,4-Dichlorobenzene	1.712	1.483	0.010	-13.4	20.0
1,2-Dichlorobenzene	1.515	1.305	0.010	-13.8	20.0
2-Chloroethyl vinyl ether	0.047	0.039	0.010	-18.5	20.0
Acrolein	0.045	0.064	0.010	40.9	20.0
Acrylonitrile	0.094	0.130	0.010	38.6	20.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2

VOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Instrument ID: V6 Calibration Date: 07/06/2010 Time: 8:55

Lab File ID: V6H5782.D Init. Calib. Date(s): 07/02/2010 07/02/2010

EPA Sample No.(VSTD#####): VSTD0506U Init. Calib. Time(s): 15:33 18:19

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dibromofluoromethane	0.270	0.292	0.010	8.5	20.0
1,2-Dichloroethane-d4	0.039	0.043	0.010	10.7	20.0
Toluene-d8	1.294	1.322	0.010	2.2	20.0
Bromofluorobenzene	0.509	0.508	0.010	-0.3	20.0

7A - FORM VII VOA-1

VOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Instrument ID: V6 Calibration Date: 07/03/2010 Time: 9:50

Lab File ID: V6H5731.D Init. Calib. Date(s): 07/02/2010 07/02/2010

EPA Sample No.(VSTD#####): VSTD0506S Init. Calib. Time(s): 15:33 18:19

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Chloromethane	0.546	0.496	0.010	-9.3	20.0
Vinyl chloride	0.391	0.337	0.010	-14.0	20.0
Bromomethane	0.200	0.175	0.010	-12.6	20.0
Chloroethane	0.192	0.164	0.010	-14.4	20.0
Trichlorofluoromethane	0.405	0.415	0.010	2.4	20.0
1,1-Dichloroethene	0.297	0.253	0.100	-14.8	20.0
Methylene chloride	0.309	0.245	0.010	-20.8	20.0
trans-1,2-Dichloroethene	0.295	0.260	0.010	-11.8	20.0
1,1-Dichloroethane	0.572	0.516	0.010	-9.8	20.0
cis-1,2-Dichloroethene	0.324	0.296	0.010	-8.6	20.0
Chloroform	0.544	0.481	0.010	-11.6	20.0
1,1,1-Trichloroethane	0.405	0.362	0.010	-10.6	20.0
Carbon tetrachloride	0.342	0.303	0.010	-11.5	20.0
1,2-Dichloroethane	0.395	0.365	0.010	-7.6	20.0
Benzene	1.172	1.084	0.010	-7.5	20.0
Trichloroethene	0.326	0.293	0.010	-9.9	20.0
1,2-Dichloropropane	0.358	0.325	0.010	-9.3	20.0
Bromodichloromethane	0.377	0.355	0.010	-5.9	20.0
cis-1,3-Dichloropropene	0.414	0.407	0.010	-1.8	20.0
Toluene	1.326	1.212	0.010	-8.6	20.0
trans-1,3-Dichloropropene	0.362	0.359	0.010	-0.8	20.0
1,1,2-Trichloroethane	0.249	0.223	0.010	-10.6	20.0
Tetrachloroethene	0.371	0.310	0.010	-16.4	20.0
Dibromochloromethane	0.394	0.378	0.010	-4.1	20.0
Chlorobenzene	1.162	1.051	0.010	-9.5	20.0
Ethylbenzene	0.576	0.547	0.010	-5.0	20.0
m,p-Xylene	0.810	0.679	0.010	-16.1	20.0
o-Xylene	0.673	0.664	0.010	-1.2	20.0
Xylene (Total)	0.698	0.674	0.010	-3.4	20.0
Bromoform	0.211	0.223	0.010	5.4	20.0
1,1,2,2-Tetrachloroethane	0.753	0.658	0.300	-12.6	20.0
1,3-Dichlorobenzene	1.626	1.515	0.010	-6.8	20.0
1,4-Dichlorobenzene	1.802	1.595	0.010	-11.5	20.0
1,2-Dichlorobenzene	1.529	1.431	0.010	-6.4	20.0
2-Chloroethyl vinyl ether	0.112	0.110	0.010	-1.5	20.0
Acrolein	0.044	0.041	0.010	-7.4	20.0
Acrylonitrile	0.100	0.089	0.010	-11.2	20.0

7B - FORM VII VOA-2

VOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Instrument ID: V6 Calibration Date: 07/03/2010 Time: 9:50

Lab File ID: V6H5731.D Init. Calib. Date(s): 07/02/2010 07/02/2010

EPA Sample No.(VSTD#####): VSTD0506S Init. Calib. Time(s): 15:33 18:19

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX %D
Dibromofluoromethane	0.269	0.264	0.010	-1.5	20.0
1,2-Dichloroethane-d4	0.039	0.038	0.010	-1.2	20.0
Toluene-d8	1.286	1.276	0.010	-0.8	20.0
Bromofluorobenzene	0.508	0.503	0.010	-0.9	20.0

7A - FORM VII VOA-1

VOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Instrument ID: V6 Calibration Date: 07/06/2010 Time: 8:55

Lab File ID: V6H5782.D Init. Calib. Date(s): 07/02/2010 07/02/2010

EPA Sample No.(VSTD#####): VSTD0506U Init. Calib. Time(s): 15:33 18:19

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX %D
Chloromethane	0.546	0.608	0.010	11.2	20.0
Vinyl chloride	0.391	0.382	0.010	-2.3	20.0
Bromomethane	0.200	0.234	0.010	17.0	20.0
Chloroethane	0.192	0.202	0.010	5.1	20.0
Trichlorofluoromethane	0.405	0.550	0.010	35.7	20.0
1,1-Dichloroethene	0.297	0.300	0.100	1.0	20.0
Methylene chloride	0.309	0.309	0.010	0.1	20.0
trans-1,2-Dichloroethene	0.295	0.287	0.010	-2.7	20.0
1,1-Dichloroethane	0.572	0.553	0.010	-3.3	20.0
cis-1,2-Dichloroethene	0.324	0.302	0.010	-6.8	20.0
Chloroform	0.544	0.513	0.010	-5.8	20.0
1,1,1-Trichloroethane	0.405	0.349	0.010	-13.7	20.0
Carbon tetrachloride	0.342	0.320	0.010	-6.3	20.0
1,2-Dichloroethane	0.395	0.404	0.010	2.3	20.0
Benzene	1.172	1.130	0.010	-3.6	20.0
Trichloroethene	0.326	0.269	0.010	-17.4	20.0
1,2-Dichloropropane	0.358	0.362	0.010	1.1	20.0
Bromodichloromethane	0.377	0.380	0.010	0.9	20.0
cis-1,3-Dichloropropene	0.414	0.396	0.010	-4.3	20.0
Toluene	1.326	1.190	0.010	-10.3	20.0
trans-1,3-Dichloropropene	0.362	0.347	0.010	-4.3	20.0
1,1,2-Trichloroethane	0.249	0.256	0.010	2.8	20.0
Tetrachloroethene	0.371	0.314	0.010	-15.3	20.0
Dibromochloromethane	0.394	0.428	0.010	8.8	20.0
Chlorobenzene	1.162	1.103	0.010	-5.1	20.0
Ethylbenzene	0.576	0.528	0.010	-8.2	20.0
m,p-Xylene	0.810	0.709	0.010	-12.4	20.0
o-Xylene	0.673	0.674	0.010	0.3	20.0
Xylene (Total)	0.698	0.697	0.010	0.0	20.0
Bromoform	0.211	0.260	0.010	23.1	20.0
1,1,2,2-Tetrachloroethane	0.753	0.717	0.300	-4.7	20.0
1,3-Dichlorobenzene	1.626	1.344	0.010	-17.4	20.0
1,4-Dichlorobenzene	1.802	1.472	0.010	-18.3	20.0
1,2-Dichlorobenzene	1.529	1.305	0.010	-14.6	20.0
2-Chloroethyl vinyl ether	0.112	0.091	0.010	-18.9	20.0
Acrolein	0.044	0.060	0.010	35.9	20.0
Acrylonitrile	0.100	0.135	0.010	35.8	20.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2

VOLATILE CONTINUING CALIBRATION DATA

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

Instrument ID: V6 Calibration Date: 07/06/2010 Time: 8:55

Lab File ID: V6H5782.D Init. Calib. Date(s): 07/02/2010 07/02/2010

EPA Sample No.(VSTD#####): VSTD0506U Init. Calib. Time(s): 15:33 18:19

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 5.0 (mL)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX %D
Dibromofluoromethane	0.269	0.290	0.010	7.9	20.0
1,2-Dichloroethane-d4	0.039	0.042	0.010	8.1	20.0
Toluene-d8	1.286	1.313	0.010	2.1	20.0
Bromofluorobenzene	0.508	0.504	0.010	-0.8	20.0

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 07/02/2010 07/02/2010

EPA Sample No.(VSTD#####): VSTD0506S Date Analyzed: 07/03/2010

Lab File ID (Standard): V6H5731.D Time Analyzed: 9:50

Instrument ID: V6 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	1090950		5.696		854004		9.315		473022		12.282	
	UPPER LIMIT	2181900		6.196		1708008		9.815		946044		12.782	
	LOWER LIMIT	545475		5.196		427002		8.815		236511		11.782	
	SAMPLE NO.												
01	LCS-52785	1350841		5.698		1047121		9.316		596280		12.284	
02	MB-52785	1257277		5.702		953323		9.314		492515		12.288	
03	TRIP BLANK	1093596		5.701		858214		9.313		432865		12.287	
04	TRIP BLANK	1076638		5.699		827916		9.311		413840		12.285	
05	MW1253E	789195		5.696		609973		9.315		305786		12.289	
06	MW1253F	769784		5.702		592982		9.314		294401		12.288	
07	MW1253G	990080		5.697		759526		9.316		386895		12.290	
08	MW1253H	979147		5.698		758925		9.317		382127		12.290	
09	MW1253I	952809		5.703		735034		9.315		375849		12.289	
10	MW1231C	953111		5.703		740612		9.315		379102		12.289	
11	MW1231E	945550		5.702		719794		9.314		366873		12.288	
12	MW1231EXD	915537		5.702		712288		9.315		368315		12.288	
13	MW1231F	910166		5.704		693770		9.316		359051		12.284	
14	MW1231G	673806		5.702		512798		9.314		256280		12.288	
15	MW1231H	876123		5.701		678757		9.313		346841		12.287	

IS1 () = Fluorobenzene

IS2 () = Chlorobenzene-d5

IS3 () = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 07/02/2010 07/02/2010

EPA Sample No.(VSTD#####): VSTD0506S Date Analyzed: 07/03/2010

Lab File ID (Standard): V6H5731.D Time Analyzed: 9:50

Instrument ID: V6 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	1090950		5.696		854004		9.315		473022		12.282	
	UPPER LIMIT	2181900		6.196		1708008		9.815		946044		12.782	
	LOWER LIMIT	545475		5.196		427002		8.815		236511		11.782	
	SAMPLE NO.												
16	MW1231I	807683		5.701		628548		9.314		319676		12.287	
17	SW-01	722488		5.703		560203		9.315		281146		12.289	
18	SW-02	870501		5.698		662973		9.316		333755		12.284	
19	SW-03	643246		5.698		502035		9.316		246497		12.290	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: J1299 Mod. Ref No.: SDG No.: SJ1299TOTA

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 07/02/2010 07/02/2010

EPA Sample No.(VSTD#####): VSTD0506U Date Analyzed: 07/06/2010

Lab File ID (Standard): V6H5782.D Time Analyzed: 8:55

Instrument ID: V6 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	562004		5.701		427238		9.32		285913		12.287	
	UPPER LIMIT	1124008		6.201		854476		9.82		571826		12.787	
	LOWER LIMIT	281002		5.201		213619		8.82		142957		11.787	
	SAMPLE NO.												
01	LCS-52794	580297		5.704		442358		9.322		298665		12.284	
02	LCSD-52794	650838		5.701		493664		9.319		344927		12.287	
03	MB-52794	552438		5.705		437099		9.317		222921		12.291	
04	MW1253HMS	608757		5.701		487546		9.314		321666		12.287	
05	MW1253HMSD	632594		5.702		498072		9.314		324110		12.288	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

MITKEM LABORATORIES

* Volatiles *

RSK-175

Mitkem Laboratories

Date: *13-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1253E
Lab ID: J1299-01
Project: Verona NY LTM Site
Collection Date: 06/23/10 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Ethane	ND		1.3	µg/L	1	07/07/2010 9:40	52819
Ethene	ND		1.6	µg/L	1	07/07/2010 9:40	52819

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *13-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1253F
Lab ID: J1299-02

Project: Verona NY LTM Site
Collection Date: 06/23/10 14:12

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Ethane	ND		1.3	µg/L	1	07/07/2010 9:46	52819
Ethene	ND		1.6	µg/L	1	07/07/2010 9:46	52819

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *13-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1253G
Lab ID: J1299-03
Project: Verona NY LTM Site
Collection Date: 06/23/10 15:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Ethane	ND		1.3	µg/L	1	07/07/2010 9:54	52819
Ethene	ND		1.6	µg/L	1	07/07/2010 9:54	52819

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *13-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1253H
Lab ID: J1299-04

Project: Verona NY LTM Site
Collection Date: 06/23/10 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Ethane	ND		1.3	µg/L	1	07/07/2010 10:01	52819
Ethene	ND		1.6	µg/L	1	07/07/2010 10:01	52819

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *13-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1253I
Lab ID: J1299-05
Project: Verona NY LTM Site
Collection Date: 06/23/10 16:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Ethane	ND		1.3	µg/L	1	07/07/2010 10:33	52819
Ethene	ND		1.6	µg/L	1	07/07/2010 10:33	52819

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *13-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1231C
Lab ID: J1299-07
Project: Verona NY LTM Site
Collection Date: 06/24/10 12:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Ethane	ND		1.2	µg/L	1	07/07/2010 10:42	52819
Ethene	ND		1.5	µg/L	1	07/07/2010 10:42	52819

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *13-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1231E
Lab ID: J1299-08
Project: Verona NY LTM Site
Collection Date: 06/24/10 13:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Ethane	ND		1.3	µg/L	1	07/07/2010 10:50	52819
Ethene	ND		1.6	µg/L	1	07/07/2010 10:50	52819

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *13-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1231EXD
Lab ID: J1299-09
Project: Verona NY LTM Site
Collection Date: 06/24/10 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Ethane	ND		1.2	µg/L	1	07/07/2010 10:59	52819
Ethene	ND		1.5	µg/L	1	07/07/2010 10:59	52819

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *13-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1231F
Lab ID: J1299-10

Project: Verona NY LTM Site
Collection Date: 06/24/10 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Ethane	ND		1.3	µg/L	1	07/07/2010 11:08	52819
Ethene	ND		1.6	µg/L	1	07/07/2010 11:08	52819

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *13-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1231G
Lab ID: J1299-11

Project: Verona NY LTM Site
Collection Date: 06/24/10 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Ethane	ND		1.3	µg/L	1	07/07/2010 11:16	52819
Ethene	ND		1.6	µg/L	1	07/07/2010 11:16	52819

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *13-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1231H
Lab ID: J1299-12
Project: Verona NY LTM Site
Collection Date: 06/24/10 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Ethane	ND		1.3	µg/L	1	07/07/2010 11:24	52819
Ethene	ND		1.6	µg/L	1	07/07/2010 11:24	52819

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *13-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1231I
Lab ID: J1299-13

Project: Verona NY LTM Site
Collection Date: 06/24/10 11:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Ethane	ND		1.3	µg/L	1	07/07/2010 11:31	52819
Ethene	ND		1.6	µg/L	1	07/07/2010 11:31	52819

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *13-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: SW-01
Lab ID: J1299-14

Project: Verona NY LTM Site
Collection Date: 06/24/10 14:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Ethane	ND		1.3	µg/L	1	07/07/2010 11:38	52819
Ethene	ND		1.6	µg/L	1	07/07/2010 11:38	52819

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *13-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: SW-02
Lab ID: J1299-15

Project: Verona NY LTM Site
Collection Date: 06/24/10 14:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Ethane	ND		1.3	µg/L	1	07/07/2010 11:45	52819
Ethene	ND		1.6	µg/L	1	07/07/2010 11:45	52819

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *13-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: SW-03
Lab ID: J1299-16
Project: Verona NY LTM Site
Collection Date: 06/24/10 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Ethane	ND		1.3	µg/L	1	07/07/2010 11:52	52819
Ethene	ND		1.6	µg/L	1	07/07/2010 11:52	52819

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Lu Engineering and Land Surveying P.C.
Work Order: J1299
Project: Verona NY LTM Site

ANALYTICAL QC SUMMARY REPORT

RSK175

RSK175 -- Dissolved Gases by GC-FID

Sample ID: MB-52819	SampType: MBLK	TestCode: RSK175	Prep Date: 07/07/10 8:41	Run ID: V7_100707A
Client ID: MB-52819	Batch ID: 52819	Units: µg/L	Analysis Date: 07/07/10 9:23	SeqNo: 1337684

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethane	ND	0.79	1.3									
Ethene	ND	0.75	1.6									

Sample ID: LCS-52819	SampType: LCS	TestCode: RSK175	Prep Date: 07/07/10 8:41	Run ID: V7_100707A
Client ID: LCS-52819	Batch ID: 52819	Units: µg/L	Analysis Date: 07/07/10 9:31	SeqNo: 1337686

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethane	78.20	0.77	1.2	85.00	0	92.0	75	125	0			
Ethene	70.55	0.73	1.5	79.00	0	89.3	75	125	0			

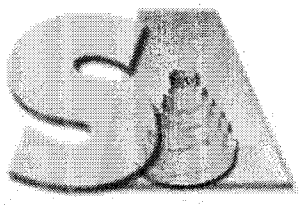
Sample ID: J1299-04AMS	SampType: MS	TestCode: RSK175	Prep Date: 07/07/10 8:41	Run ID: V7_100707A
Client ID: MW1253H	Batch ID: 52819	Units: µg/L	Analysis Date: 07/07/10 10:17	SeqNo: 1337695

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethane	69.47	0.25	1.3	85.00	0	81.7	75	125	0			
Ethene	62.50	0.42	1.6	79.00	0	79.1	75	125	0			

Sample ID: J1299-04AMSD	SampType: MSD	TestCode: RSK175	Prep Date: 07/07/10 8:41	Run ID: V7_100707A
Client ID: MW1253H	Batch ID: 52819	Units: µg/L	Analysis Date: 07/07/10 10:26	SeqNo: 1337697

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethane	72.71	0.25	1.3	85.00	0	85.5	75	125	69.47	4.57	40	
Ethene	66.69	0.42	1.6	79.00	0	84.4	75	125	62.50	6.48	40	

MITKEM LABORATORIES



* Metals *

Total

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

SOW No.: MCAWW

EPA Sample No.	Lab Sample ID
MW1231C	J1299-07
MW1231E	J1299-08
MW1231EXD	J1299-09
MW1231F	J1299-10
MW1231G	J1299-11
MW1231H	J1299-12
MW1231I	J1299-13
MW1253E	J1299-01
MW1253F	J1299-02
MW1253G	J1299-03
MW1253H	J1299-04
MW1253HD	J1299-04DUP
MW1253HS	J1299-04MS
MW1253I	J1299-05
SW-01	J1299-14
SW-02	J1299-15
SW-03	J1299-16

Were ICP interelement corrections applied?	Yes/No	Yes
Were background corrections applied?	Yes/No	Yes
If yes-were raw data generated before application of background corrections?	Yes/No	No

Comments:

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 and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature

Signature: Dawn E Smart Name: Dawn E Smart

Date: 7/19/10 Title:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1231C

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Lab Sample ID: J1299-07

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	82.0	U		P
7439-96-5	Manganese	217			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1231E

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Lab Sample ID: J1299-08

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	82.0	U		P
7439-96-5	Manganese	4.5	U		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1231EXD

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Lab Sample ID: J1299-09

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	82.0	U		P
7439-96-5	Manganese	4.5	U		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1231F

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Lab Sample ID: J1299-10

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	284			P
7439-96-5	Manganese	60.8			P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1231G

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Lab Sample ID: J1299-11

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	507			P
7439-96-5	Manganese	245			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1231H

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Lab Sample ID: J1299-12

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	3930			P
7439-96-5	Manganese	196			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1231I

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Lab Sample ID: J1299-13

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	1720			P
7439-96-5	Manganese	669			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1253E

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Lab Sample ID: J1299-01

Level (low/med): LOW Date Received: 06/24/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	428			P
7439-96-5	Manganese	283			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1253F

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Lab Sample ID: J1299-02

Level (low/med): LOW Date Received: 06/24/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	82.0	U		P
7439-96-5	Manganese	56.6			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1253G

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Lab Sample ID: J1299-03

Level (low/med): LOW Date Received: 06/24/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	841			P
7439-96-5	Manganese	496			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1253H

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Lab Sample ID: J1299-04

Level (low/med): LOW Date Received: 06/24/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	1060			P
7439-96-5	Manganese	2960			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1253I

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Lab Sample ID: J1299-05

Level (low/med): LOW Date Received: 06/24/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	458			P
7439-96-5	Manganese	941			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SW-01

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Lab Sample ID: J1299-14

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	2750			P
7439-96-5	Manganese	479			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SW-02

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Lab Sample ID: J1299-15

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	969			P
7439-96-5	Manganese	133			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SW-03

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Lab Sample ID: J1299-16

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	1060			P
7439-96-5	Manganese	94.2			P

Comments:

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Iron	5000.0	5103.58	102.1	5000.0	5129.00	102.6	5156.48	103.1	P
Manganese	2500.0	2543.32	101.7	2500.0	2541.44	101.7	2548.40	101.9	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Iron				5000.0	5104.76	102.1	5118.19	102.4	P
Manganese				2500.0	2523.38	100.9	2504.16	100.2	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Iron				5000.0	5155.53	103.1	5154.24	103.1	P
Manganese				2500.0	2531.70	101.3	2518.40	100.7	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Iron				5000.0	5123.01	102.5			P
Manganese				2500.0	2530.28	101.2			P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

3

BLANKS

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

Preparation Blank Matrix (soil/water): WATER Method Blank ID: MB-52716

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

OPTIMA2_100701B

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Iron	70.0	U	70.0	U	70.0	U	70.0	U	82.000	U	P
Manganese	4.8	U	4.8	U	4.8	U	4.8	U	4.500	U	P

U.S. EPA - CLP

3

BLANKS

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

Preparation Blank Matrix (soil/water): Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg):

OPTIMA2_100701B

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Iron			70.0	U	70.0	U	70.0	U			P
Manganese			4.8	U	4.8	U	4.8	U			P

U.S. EPA - CLP

3

BLANKS

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SJ1299TOTAL

Preparation Blank Matrix (soil/water): _____ Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg): _____

OPTIMA2_100701B

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Iron			70.0	U							P
Manganese			4.8	U							P

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

ICP ID Number: OPTIMA2 ICS Source:

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found %R	Final Found Sol. AB	Final Found %R
Iron	200000	200000	180549	180948.7	90.5	181350		181080.5	90.5
Manganese	0	500	-1	466	93.2	-1		462.8	92.6

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

ICP ID Number: OPTIMA2 ICS Source:

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found %R	Final Found Sol. AB	Final Found %R
Iron	200000	200000	178908	181596.3	90.8	179131		180659.4	90.3
Manganese	0	500	-2	454.8	91.0	-1		454.2	90.8

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

ICP ID Number: OPTIMA2 ICS Source:

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found %R	Final Found Sol. AB	Final Found %R
Iron	200000	200000	180370	182472.6	91.2				
Manganese	0	500	-2	456.2	91.2				

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MW1253HS

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Iron	75-125	2100		1060		1000	105		P
Manganese		3420		2960		500	92		P

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

MW1253HD

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Iron		1058.0089		1068.8721		1		P
Manganese		2956.8799		2996.4442		1.3		P

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7

LABORATORY CONTROL SAMPLE

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

Solid LCS Source: LCS(D) ID:

Aqueous LCS Source: LCS-52716

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Iron	1000.0	1056.79	105.7						
Manganese	500.0	519.87	104.0						

9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

MW1253H

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTA

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Iron	1058.01		1105.14		5		P
Manganese	2956.88		3132.69		6		P

U.S. EPA - CLP

10

METHOD DETECTION LIMITS (ANUALLY)

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

Instrument Type: P InstrumentID: OPTIMA2 Date: 06/03/2010

Preparation Method: 200.7

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRDL	MDL
Iron	273.96	200	70.0
Manganese	257.61	50	4.8

Comments:

U.S. EPA - CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

ICP ID Number: OPTIMA2 Date: 5/11/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Cr
Aluminum	308.21		0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0503581	0.0000000	-0.0183324	0.0000000	40.0000000
Arsenic	188.97	-0.0735593	-0.0190274	-0.0578648	0.0000000	40.8735000
Barium	233.52	0.0033130	0.0000000	-0.0057677	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0471124	0.0000000	0.0000000
Calcium	227.54	-0.4073410		-10.4750000	0.0000000	4.6404400
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0076489	
Cobalt	228.61	-0.0039939	0.0022719	-0.0113061	0.0000000	-0.0839403
Copper	324.75	0.0000000	0.0000000	-0.0486491	0.0032347	-0.0831776
Iron	273.95	0.0000000	0.0000000		0.0000000	0.0000000
Lead	220.35	-0.0684359	-0.0121907	0.0000000	0.0025410	0.1132500
Magnesium	279.07	0.0000000	0.0000000	-0.6034060		0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0319491	-0.0481060
Nickel	231.60	0.0000000	0.0000000	-0.0117335	0.0032387	0.0000000
Selenium	196.02	-0.0087082	0.0185674	-0.2764220	0.0101080	-0.0559579
Silver	328.06	0.0000000	0.0069716	0.0000000	0.0000000	0.0000000
Sodium	330.24	0.0000000	1.3806200	0.0000000	-0.2416170	-9.6520200
Thallium	190.80	-0.0297948	0.0032901	-0.0485022	0.0000000	0.1913950
Titanium	334.94	0.0000000	-0.0108271	0.0000000	0.0095423	0.1364990
Vanadium	292.40	0.0000000	0.0029244	-0.1170980	-0.0147389	-1.0524600
Zinc	206.20	-0.0068487	0.0000000	-0.0077985	0.0000000	-1.5133500

Comments:

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

ICP ID Number: OPTIMA2 Date: 5/11/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cu	Mn	Ni	Tl	Ti
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	-0.2368010	-0.0499186	-0.1460360	-0.7749060
Arsenic	188.97	0.0000000	-0.1225630	0.0325017	0.1448520	-0.3120820
Barium	233.52	0.0000000	0.0000000	0.0341461	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000000	-0.9291120
Cadmium	226.50	0.0000000	0.0000000	-0.0599274	0.0000000	0.0000000
Calcium	227.54	11.7142000	-2.8806000	14.6964000	0.0000000	0.0000000
Chromium	267.71	0.0000000	0.1316430	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.1812400	0.0000000	0.0000000
Copper	324.75		0.0000000	0.0000000	0.0000000	0.0000000
Iron	273.95	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.5261980	0.1500320	-0.4661620	0.0000000	-0.5560120
Magnesium	279.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000		0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0656769		0.0000000	0.1873290
Selenium	196.02	0.0614553	0.4331930	-0.0313067	0.0797967	0.2679610
Silver	328.06	0.0000000	0.4549270	0.0000000	0.0000000	0.0000000
Sodium	330.24	7.8727400	0.0000000	0.0000000	0.0000000	1138.6700000
Thallium	190.80	0.0000000	-3.5879000	0.0000000		0.7772240
Titanium	334.94	0.0000000	0.0000000	0.0000000	0.0521852	
Vanadium	292.40	0.0424152	-0.0633808	0.0000000	0.0000000	0.3744210
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.2394260

Comments:

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: SJ1299TOTAL

ICP ID Number: OPTIMA2 Date: 5/11/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: V	___	___	___	___
Aluminum	308.21	-22.9537000				
Antimony	206.83	-2.8069100				
Arsenic	188.97	-0.0328015				
Barium	233.52	-0.7215630				
Beryllium	313.10	-0.0216345				
Cadmium	226.50	0.0000000				
Calcium	227.54	28.4736000				
Chromium	267.71	-0.1772820				
Cobalt	228.61	0.0218014				
Copper	324.75	-0.1313020				
Iron	273.95	-79.2442000				
Lead	220.35	-0.0412849				
Magnesium	279.07	0.0000000				
Manganese	257.61	0.0000000				
Nickel	231.60	0.0000000				
Selenium	196.02	-0.0438617				
Silver	328.06	-1.3668000				
Sodium	330.24	0.0000000				
Thallium	190.80	1.8934500				
Titanium	334.94	0.0000000				
Vanadium	292.40					
Zinc	206.20	0.0000000				

Comments:

U.S. EPA - CLP

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

ICP ID Number: OPTIMA2 Date: 5/26/2010

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Iron	0.20	300000	P
Manganese	0.20	25000	P

Comments:

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

Preparation Method: 200.7 Batch ID: 52716

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	06/30/2010		50
MW1231C	06/30/2010		50
MW1231E	06/30/2010		50
MW1231EXD	06/30/2010		50
MW1231F	06/30/2010		50
MW1231G	06/30/2010		50
MW1231H	06/30/2010		50
MW1231I	06/30/2010		50
MW1253E	06/30/2010		50
MW1253F	06/30/2010		50
MW1253G	06/30/2010		50
MW1253H	06/30/2010		50
MW1253HD	06/30/2010		50
MW1253HS	06/30/2010		50
MW1253I	06/30/2010		50
PBW	06/30/2010		50
SW-01	06/30/2010		50
SW-02	06/30/2010		50
SW-03	06/30/2010		50

Comments:

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

Instrument ID Number: OPTIMA2 Method: P

Start Date: 07/02/2010 End Date: 07/02/2010

OPTIMA2_100701B

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	0944												X			X										
S1	1.0	0946												X			X										
S2	1.0	0949												X			X										
S3	1.0	0952												X			X										
ICV	1.0	0955												X			X										
ICB	1.0	0958												X			X										
ZZZZZZ	1.0	1001																									
ICSA	1.0	1003												X			X										
ICSAB	1.0	1006												X			X										
ZZZZZZ	1.0	1009																									
ZZZZZZ	1.0	1011																									
ZZZZZZ	1.0	1015																									
ZZZZZZ	1.0	1017																									
ZZZZZZ	1.0	1020																									
ZZZZZZ	1.0	1023																									
ZZZZZZ	1.0	1026																									
CCV	1.0	1029												X			X										
CCB	1.0	1031												X			X										
ZZZZZZ	1.0	1034																									
ZZZZZZ	1.0	1037																									
ZZZZZZ	1.0	1040																									
ZZZZZZ	5.0	1043																									
ZZZZZZ	1.0	1045																									
ZZZZZZ	1.0	1048																									
ICSA	1.0	1051												X			X										
ICSAB	1.0	1054												X			X										
CCV	1.0	1056												X			X										
CCB	1.0	1100												X			X										
ZZZZZZ	1.0	1103																									
ZZZZZZ	1.0	1105																									
ZZZZZZ	1.0	1108																									
ZZZZZZ	1.0	1111																									

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14

ANALYSIS RUN LOG

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

Instrument ID Number: OPTIMA2 Method: P

Start Date: 07/02/2010 End Date: 07/02/2010

OPTIMA2_100701B

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.0	1114																										
ZZZZZZ	1.0	1116																										
ZZZZZZ	1.0	1119																										
ZZZZZZ	1.0	1122																										
CCV	1.0	1124												X			X											
CCB	1.0	1127												X			X											
ZZZZZZ	1.0	1130																										
ZZZZZZ	1.0	1133																										
ZZZZZZ	1.0	1135																										
ICSA	1.0	1138												X			X											
ICSAB	1.0	1141												X			X											
CCV	1.0	1144												X			X											
CCB	1.0	1147												X			X											
PBW	1.0	1150												X			X											
LCSW	1.0	1152												X			X											
MW1253E	1.0	1155												X			X											
MW1253F	1.0	1158												X			X											
MW1253G	1.0	1200												X			X											
MW1253H	1.0	1203												X			X											
MW1253HD	1.0	1205												X			X											
MW1253HS	1.0	1209												X			X											
MW1253HL	5.0	1211												X			X											
CCV	1.0	1214												X			X											
CCB	1.0	1217												X			X											
ZZZZZZ	1.0	1220																										
MW1253I	1.0	1223												X			X											
MW1231C	1.0	1225												X			X											
MW1231E	1.0	1229												X			X											
MW1231EXD	1.0	1231												X			X											
MW1231F	1.0	1234												X			X											
ICSA	1.0	1237												X			X											
ICSAB	1.0	1240												X			X											

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14

ANALYSIS RUN LOG

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299TOTAL

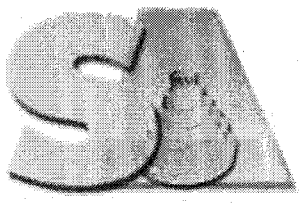
Instrument ID Number: OPTIMA2 Method: P

Start Date: 07/02/2010 End Date: 07/02/2010

OPTIMA2_100701B

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.0	1243												X			X										
CCB	1.0	1246												X			X										
MW1231G	1.0	1248												X			X										
MW1231H	1.0	1251												X			X										
MW1231I	1.0	1254												X			X										
SW-01	1.0	1256												X			X										
SW-02	1.0	1259												X			X										
SW-03	1.0	1302												X			X										
ICSA	1.0	1305												X			X										
ICSAB	1.0	1307												X			X										
CCV	1.0	1310												X			X										
CCB	1.0	1313												X			X										

MITKEM LABORATORIES



* Metals *

Dissolved

U.S.EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

SOW No.: MCAWW

EPA Sample No.	Lab Sample ID
MW1231C	J1299-07
MW1231E	J1299-08
MW1231EXD	J1299-09
MW1231F	J1299-10
MW1231G	J1299-11
MW1231H	J1299-12
MW1231I	J1299-13
MW1253E	J1299-01
MW1253F	J1299-02
MW1253G	J1299-03
MW1253H	J1299-04
MW1253HD	J1299-04DUP
MW1253HS	J1299-04MS
MW1253I	J1299-05
SW-01	J1299-14
SW-02	J1299-15
SW-03	J1299-16

Were ICP interelement corrections applied? Yes/No Yes

Were background corrections applied? Yes/No Yes

If yes-were raw data generated before application of background corrections? Yes/No No

Comments:

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 and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature

Signature: Dawne E Smart Name: Dawne E Smart

Date: 7/19/10 Title:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1231C

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Lab Sample ID: J1299-07

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	82.0	U		P
7439-96-5	Manganese	198			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1231E

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Lab Sample ID: J1299-08

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	82.0	U		P
7439-96-5	Manganese	5.1	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1231EXD

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Lab Sample ID: J1299-09

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	82.0	U		P
7439-96-5	Manganese	5.5	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1231F

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Lab Sample ID: J1299-10

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	82.0	U		P
7439-96-5	Manganese	18.3	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1231G

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Lab Sample ID: J1299-11

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	83.5	B		P
7439-96-5	Manganese	251			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1231H

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Lab Sample ID: J1299-12

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	311			P
7439-96-5	Manganese	179			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1231I

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Lab Sample ID: J1299-13

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	82.0	U		P
7439-96-5	Manganese	607			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1253E

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Lab Sample ID: J1299-01

Level (low/med): LOW Date Received: 06/24/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	95.3	B		P
7439-96-5	Manganese	281			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1253F

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Lab Sample ID: J1299-02

Level (low/med): LOW Date Received: 06/24/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	82.0	U		P
7439-96-5	Manganese	56.7			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1253G

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Lab Sample ID: J1299-03

Level (low/med): LOW Date Received: 06/24/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	250			P
7439-96-5	Manganese	477			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1253H

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Lab Sample ID: J1299-04

Level (low/med): LOW Date Received: 06/24/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	111	B		P
7439-96-5	Manganese	2790			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW1253I

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Lab Sample ID: J1299-05

Level (low/med): LOW Date Received: 06/24/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	101	B		P
7439-96-5	Manganese	969			P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SW-01

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Lab Sample ID: J1299-14

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	1710			P
7439-96-5	Manganese	45.1	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SW-02

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Lab Sample ID: J1299-15

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	598			P
7439-96-5	Manganese	17.2	B		P

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SW-03

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Lab Sample ID: J1299-16

Level (low/med): LOW Date Received: 06/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	639			P
7439-96-5	Manganese	18.8	B		P

Comments:

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Iron	5000.0	5103.58	102.1	5000.0	5129.00	102.6	5156.48	103.1	P
Manganese	2500.0	2543.32	101.7	2500.0	2541.44	101.7	2548.40	101.9	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Iron				5000.0	5104.76	102.1	5118.19	102.4	P
Manganese				2500.0	2523.38	100.9	2504.16	100.2	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

3

BLANKS

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: MB-52581

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

OPTIMA2_100701B

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Iron	70.0	U	70.0	U	70.0	U	70.0	U	82.000	U	P
Manganese	4.8	U	4.8	U	4.8	U	4.8	U	4.500	U	P

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3

BLANKS

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: MB-52732

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

OPTIMA2_100701B

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Iron			70.0	U					82.000	U	P
Manganese			4.8	U					4.500	U	P

U.S. EPA - CLP

3

BLANKS

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: MB-52618

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

OPTIMA2_100701B

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Iron									82.000	U	P
Manganese									4.500	U	P

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

ICP ID Number: OPTIMA2 ICS Source:

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found %R	Final Found Sol. AB	Final Found %R
Iron	200000	200000	180549	180948.7	90.5	181350		181080.5	90.5
Manganese	0	500	-1	466	93.2	-1		462.8	92.6

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

ICP ID Number: OPTIMA2 ICS Source:

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found %R	Final Found Sol. AB	Final Found %R
Iron	200000	200000	178908	181596.3	90.8				
Manganese	0	500	-2	454.8	91.0				

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MW1253HS

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Iron	75-125	1150		111	B	1000	104		P
Manganese		3360		2790		500	113		P

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

MW1253HD

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Iron		110.5690	B	113.3791	B	2.5		P
Manganese		2794.1939		2758.0958		1.3		P

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Solid LCS Source:

Aqueous LCS Source:

LCS(D) ID:
LCS-52732

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Iron	1000.0	1109.63	111.0						
Manganese	500.0	551.01	110.2						

U.S. EPA - CLP

9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

MW1253H

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Iron	110.57	B	350.00	U	100		P
Manganese	2794.19		2856.07		2		P

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10

METHOD DETECTION LIMITS (ANUALLY)

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Instrument Type: P InstrumentID: OPTIMA2 Date: 06/03/2010

Preparation Method: ~~METHO~~ 200.7 DCS 7/19/10

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRDL	MDL
Iron	273.96	200	70.0
Manganese	257.61	50	4.8

Comments:

U.S. EPA - CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

ICP ID Number: OPTIMA2 Date: 5/11/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Cr
Aluminum	308.21		0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0503581	0.0000000	-0.0183324	0.0000000	40.0000000
Arsenic	188.97	-0.0735593	-0.0190274	-0.0578648	0.0000000	40.8735000
Barium	233.52	0.0033130	0.0000000	-0.0057677	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0471124	0.0000000	0.0000000
Calcium	227.54	-0.4073410		-10.4750000	0.0000000	4.6404400
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0076489	
Cobalt	228.61	-0.0039939	0.0022719	-0.0113061	0.0000000	-0.0839403
Copper	324.75	0.0000000	0.0000000	-0.0486491	0.0032347	-0.0831776
Iron	273.95	0.0000000	0.0000000		0.0000000	0.0000000
Lead	220.35	-0.0684359	-0.0121907	0.0000000	0.0025410	0.1132500
Magnesium	279.07	0.0000000	0.0000000	-0.6034060		0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0319491	-0.0481060
Nickel	231.60	0.0000000	0.0000000	-0.0117335	0.0032387	0.0000000
Selenium	196.02	-0.0087082	0.0185674	-0.2764220	0.0101080	-0.0559579
Silver	328.06	0.0000000	0.0069716	0.0000000	0.0000000	0.0000000
Sodium	330.24	0.0000000	1.3806200	0.0000000	-0.2416170	-9.6520200
Thallium	190.80	-0.0297948	0.0032901	-0.0485022	0.0000000	0.1913950
Titanium	334.94	0.0000000	-0.0108271	0.0000000	0.0095423	0.1364990
Vanadium	292.40	0.0000000	0.0029244	-0.1170980	-0.0147389	-1.0524600
Zinc	206.20	-0.0068487	0.0000000	-0.0077985	0.0000000	-1.5133500

Comments:

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

ICP ID Number: OPTIMA2 Date: 5/11/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cu	Mn	Ni	Tl	Ti
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	-0.2368010	-0.0499186	-0.1460360	-0.7749060
Arsenic	188.97	0.0000000	-0.1225630	0.0325017	0.1448520	-0.3120820
Barium	233.52	0.0000000	0.0000000	0.0341461	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000000	-0.9291120
Cadmium	226.50	0.0000000	0.0000000	-0.0599274	0.0000000	0.0000000
Calcium	227.54	11.7142000	-2.8806000	14.6964000	0.0000000	0.0000000
Chromium	267.71	0.0000000	0.1316430	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.1812400	0.0000000	0.0000000
Copper	324.75		0.0000000	0.0000000	0.0000000	0.0000000
Iron	273.95	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.5261980	0.1500320	-0.4661620	0.0000000	-0.5560120
Magnesium	279.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000		0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0656769		0.0000000	0.1873290
Selenium	196.02	0.0614553	0.4331930	-0.0313067	0.0797967	0.2679610
Silver	328.06	0.0000000	0.4549270	0.0000000	0.0000000	0.0000000
Sodium	330.24	7.8727400	0.0000000	0.0000000	0.0000000	1138.6700000
Thallium	190.80	0.0000000	-3.5879000	0.0000000		0.7772240
Titanium	334.94	0.0000000	0.0000000	0.0000000	0.0521852	
Vanadium	292.40	0.0424152	-0.0633808	0.0000000	0.0000000	0.3744210
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.2394260

Comments:

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

ICP ID Number: OPTIMA2 Date: 5/11/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: V	___	___	___	___
Aluminum	308.21	-22.9537000				
Antimony	206.83	-2.8069100				
Arsenic	188.97	-0.0328015				
Barium	233.52	-0.7215630				
Beryllium	313.10	-0.0216345				
Cadmium	226.50	0.0000000				
Calcium	227.54	28.4736000				
Chromium	267.71	-0.1772820				
Cobalt	228.61	0.0218014				
Copper	324.75	-0.1313020				
Iron	273.95	-79.2442000				
Lead	220.35	-0.0412849				
Magnesium	279.07	0.0000000				
Manganese	257.61	0.0000000				
Nickel	231.60	0.0000000				
Selenium	196.02	-0.0438617				
Silver	328.06	-1.3668000				
Sodium	330.24	0.0000000				
Thallium	190.80	1.8934500				
Titanium	334.94	0.0000000				
Vanadium	292.40					
Zinc	206.20	0.0000000				

Comments:

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

ICP ID Number: OPTIMA2 Date: 5/26/2010

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Iron	0.20	300000	P
Manganese	0.20	25000	P

Comments:

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PREPARATION LOG

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Preparation Method: 200.7 Batch ID: 52732

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	07/01/2010		50
MW1231C	07/01/2010		50
MW1231E	07/01/2010		50
MW1231EXD	07/01/2010		50
MW1231F	07/01/2010		50
MW1231G	07/01/2010		50
MW1231H	07/01/2010		50
MW1231I	07/01/2010		50
MW1253E	07/01/2010		50
MW1253F	07/01/2010		50
MW1253G	07/01/2010		50
MW1253H	07/01/2010		50
MW1253HD	07/01/2010		50
MW1253HS	07/01/2010		50
MW1253I	07/01/2010		50
PBW	07/01/2010		50
PBW	07/01/2010		50
PBW	07/01/2010		50
SW-01	07/01/2010		50
SW-02	07/01/2010		50
SW-03	07/01/2010		50

Comments:

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: Mitkem Laboratories Contract: 13147-01

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Instrument ID Number: OPTIMA2 Method: P

Start Date: 07/02/2010 End Date: 07/02/2010

OPTIMA2_100701B

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	0944												X			X										
S1	1.0	0946												X			X										
S2	1.0	0949												X			X										
S3	1.0	0952												X			X										
ICV	1.0	0955												X			X										
ICB	1.0	0958												X			X										
ZZZZZZ	1.0	1001																									
ICSA	1.0	1003												X			X										
ICSAB	1.0	1006												X			X										
PBW	1.0	1009												X			X										
PBW	1.0	1011												X			X										
LCSW	1.0	1015												X			X										
ZZZZZZ	1.0	1017																									
MW1253E	1.0	1020												X			X										
MW1253F	1.0	1023												X			X										
MW1253G	1.0	1026												X			X										
CCV	1.0	1029												X			X										
CCB	1.0	1031												X			X										
MW1253H	1.0	1034												X			X										
MW1253HD	1.0	1037												X			X										
MW1253HS	1.0	1040												X			X										
MW1253HL	5.0	1043												X			X										
ZZZZZZ	1.0	1045																									
MW1253I	1.0	1048												X			X										
ICSA	1.0	1051												X			X										
ICSAB	1.0	1054												X			X										
CCV	1.0	1056												X			X										
CCB	1.0	1100												X			X										
PBW	1.0	1103												X			X										
MW1231C	1.0	1105												X			X										
MW1231E	1.0	1108												X			X										
MW1231EXD	1.0	1111												X			X										

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ANALYSIS RUN LOG

Lab Name: Mitkem Laboratories Contract: 13147-01

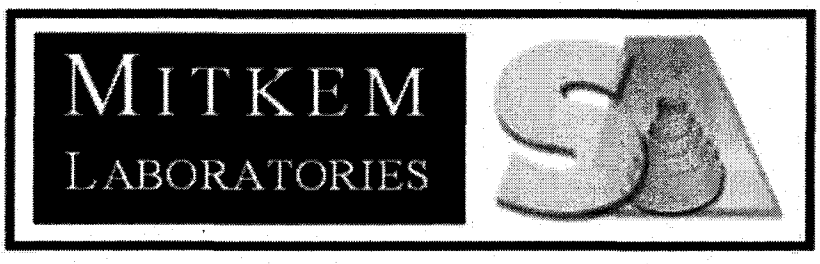
Lab Code: MITKEM Case No.: SAS No.: SDG No.: SJ1299D

Instrument ID Number: OPTIMA2 Method: P

Start Date: 07/02/2010 End Date: 07/02/2010

OPTIMA2_100701B

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MW1231F	1.0	1114												X			X										
MW1231G	1.0	1116												X			X										
MW1231H	1.0	1119												X			X										
MW1231I	1.0	1122												X			X										
CCV	1.0	1124												X			X										
CCB	1.0	1127												X			X										
SW-01	1.0	1130												X			X										
SW-02	1.0	1133												X			X										
SW-03	1.0	1135												X			X										
ICSA	1.0	1138												X			X										
ICSAB	1.0	1141												X			X										
CCV	1.0	1144												X			X										
CCB	1.0	1147												X			X										



* Wet Chemistry *

Mitkem Laboratories

Date: *12-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1253E
Lab ID: J1299-01
Project: Verona NY LTM Site
Collection Date: 06/23/10 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							**E300IC_W**
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	06/24/2010 12:52	52579
Sulfate	3.9	J	5.0	mg/L	1	06/24/2010 12:52	52579
SM 2320 -- ALKALINITY (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	350		20	mg/L CaCO3	1	06/29/2010 14:09	52686
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	430		10	mg/L	1	06/28/2010 22:54	52651
SM 4500 CO2 -- FREE CARBON DIOXIDE by Calculation							**SM4500_CALC_CO2_W**
Carbon dioxide, Free	220		10	mg/L	1	06/29/2010 14:05	R50638
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.5		1.0	S.U.	1	06/24/2010 12:00	R50296

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *12-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1253F
Lab ID: J1299-02

Project: Verona NY LTM Site
Collection Date: 06/23/10 14:12

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							**E300IC_W**
Nitrogen, Nitrate (As N)	0.082	J	0.13	mg/L	1	06/24/2010 13:03	52579
Sulfate	6.9		5.0	mg/L	1	06/24/2010 13:03	52579
SM 2320 -- ALKALINITY (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	440		20	mg/L CaCO3	1	06/29/2010 14:12	52686
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	470		10	mg/L	1	06/29/2010 0:30	52651
SM 4500 CO2 -- FREE CARBON DIOXIDE by Calculation							**SM4500_CALC_CO2_W**
Carbon dioxide, Free	370		10	mg/L	1	06/29/2010 14:07	R50638
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.4		1.0	S.U.	1	06/24/2010 12:10	R50296

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *12-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1253G
Lab ID: J1299-03
Project: Verona NY LTM Site
Collection Date: 06/23/10 15:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							**E300IC_W**
Nitrogen, Nitrate (As N)	0.098	J	0.13	mg/L	1	06/24/2010 13:15	52579
Sulfate	2.2	J	5.0	mg/L	1	06/24/2010 13:15	52579
SM 2320 -- ALKALINITY (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	480		20	mg/L CaCO3	1	06/29/2010 14:14	52686
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	470		10	mg/L	1	06/29/2010 2:06	52651
SM 4500 CO2 -- FREE CARBON DIOXIDE by Calculation							**SM4500_CALC_CO2_W**
Carbon dioxide, Free	300		10	mg/L	1	06/29/2010 14:10	R50638
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.5		1.0	S.U.	1	06/24/2010 12:20	R50296

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *12-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1253H
Lab ID: J1299-04

Project: Verona NY LTM Site
Collection Date: 06/23/10 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							**E300IC_W**
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	06/24/2010 13:27	52579
Sulfate	17		5.0	mg/L	1	06/24/2010 13:27	52579
SM 2320 -- ALKALINITY (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	430		20	mg/L CaCO3	1	06/29/2010 14:16	52686
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	360		10	mg/L	1	06/29/2010 3:42	52651
SM 4500 CO2 -- FREE CARBON DIOXIDE by Calculation							**SM4500_CALC_CO2_W**
Carbon dioxide, Free	160		10	mg/L	1	06/29/2010 14:13	R50638
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.7		1.0	S.U.	1	06/24/2010 12:30	R50296

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *12-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1253I
Lab ID: J1299-05

Project: Verona NY LTM Site
Collection Date: 06/23/10 16:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							**E300IC_W**
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	06/24/2010 14:02	52579
Sulfate	13		5.0	mg/L	1	06/24/2010 14:02	52579
SM 2320 -- ALKALINITY (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	580		20	mg/L CaCO3	1	06/29/2010 14:23	52686
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	360		10	mg/L	1	06/29/2010 6:54	52651
SM 4500 CO2 -- FREE CARBON DIOXIDE by Calculation							**SM4500_CALC_CO2_W**
Carbon dioxide, Free	310		10	mg/L	1	06/29/2010 14:19	R50638
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.6		1.0	S.U.	1	06/24/2010 12:50	R50296

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *12-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1231C
Lab ID: J1299-07

Project: Verona NY LTM Site
Collection Date: 06/24/10 12:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							**E300IC_W**
Nitrogen, Nitrate (As N)	0.13	J	0.13	mg/L	1	06/25/2010 13:24	52611
Sulfate	11	B	5.0	mg/L	1	06/25/2010 13:24	52611
SM 2320 -- ALKALINITY (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	400		20	mg/L CaCO3	1	06/29/2010 14:26	52686
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	390		10	mg/L	1	06/29/2010 18:57	52687
SM 4500 CO2 -- FREE CARBON DIOXIDE by Calculation							**SM4500_CALC_CO2_W**
Carbon dioxide, Free	160		10	mg/L	1	06/29/2010 14:21	R50638
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.7		1.0	S.U.	1	06/25/2010 12:00	R50284

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *12-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1231E
Lab ID: J1299-08

Project: Verona NY LTM Site
Collection Date: 06/24/10 13:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							**E300IC_W**
Nitrogen, Nitrate (As N)	0.030	J	0.13	mg/L	1	06/25/2010 13:36	52611
Sulfate	14	B	5.0	mg/L	1	06/25/2010 13:36	52611
SM 2320 -- ALKALINITY (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	410		20	mg/L CaCO3	1	06/29/2010 14:28	52686
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	410		10	mg/L	1	06/29/2010 20:11	52687
SM 4500 CO2 -- FREE CARBON DIOXIDE by Calculation							**SM4500_CALC_CO2_W**
Carbon dioxide, Free	150		10	mg/L	1	06/29/2010 14:24	R50638
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.7		1.0	S.U.	1	06/25/2010 12:05	R50284

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *12-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1231EXD
Lab ID: J1299-09

Project: Verona NY LTM Site
Collection Date: 06/24/10 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							**E300IC_W**
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	06/25/2010 13:47	52611
Sulfate	13	B	5.0	mg/L	1	06/25/2010 13:47	52611
SM 2320 -- ALKALINITY (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	360		20	mg/L CaCO3	1	06/29/2010 14:31	52686
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	410		10	mg/L	1	06/29/2010 21:25	52687
SM 4500 CO2 -- FREE CARBON DIOXIDE by Calculation							**SM4500_CALC_CO2_W**
Carbon dioxide, Free	150		10	mg/L	1	06/29/2010 14:27	R50638
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.7		1.0	S.U.	1	06/25/2010 12:10	R50284

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *12-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1231F
Lab ID: J1299-10

Project: Verona NY LTM Site
Collection Date: 06/24/10 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							**E300IC_W**
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	06/25/2010 13:59	52611
Sulfate	12	B	5.0	mg/L	1	06/25/2010 13:59	52611
SM 2320 -- ALKALINITY (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	360		20	mg/L CaCO3	1	06/29/2010 14:33	52686
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	300		10	mg/L	1	06/29/2010 22:39	52687
SM 4500 CO2 -- FREE CARBON DIOXIDE by Calculation							**SM4500_CALC_CO2_W**
Carbon dioxide, Free	40		10	mg/L	1	06/29/2010 14:30	R50638
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	7.3		1.0	S.U.	1	06/25/2010 12:16	R50284

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *12-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1231G
Lab ID: J1299-11

Project: Verona NY LTM Site
Collection Date: 06/24/10 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							**E300IC_W**
Nitrogen, Nitrate (As N)	0.026	J	0.13	mg/L	1	06/25/2010 14:11	52611
Sulfate	6.6	B	5.0	mg/L	1	06/25/2010 14:11	52611
SM 2320 -- ALKALINITY (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	500		20	mg/L CaCO3	1	06/29/2010 14:35	52686
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	460		10	mg/L	1	06/29/2010 23:53	52687
SM 4500 CO2 -- FREE CARBON DIOXIDE by Calculation							**SM4500_CALC_CO2_W**
Carbon dioxide, Free	220		10	mg/L	1	06/29/2010 14:33	R50638
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.7		1.0	S.U.	1	06/25/2010 12:27	R50284

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *12-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1231H
Lab ID: J1299-12

Project: Verona NY LTM Site
Collection Date: 06/24/10 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							**E300IC_W**
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	06/25/2010 14:23	52611
Sulfate	6.3	B	5.0	mg/L	1	06/25/2010 14:23	52611
SM 2320 -- ALKALINITY (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	600		20	mg/L CaCO3	1	06/29/2010 14:38	52686
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	410		10	mg/L	1	06/30/2010 1:06	52687
SM 4500 CO2 -- FREE CARBON DIOXIDE by Calculation							**SM4500_CALC_CO2_W**
Carbon dioxide, Free	230		10	mg/L	1	06/29/2010 14:35	R50638
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.7		1.0	S.U.	1	06/25/2010 12:32	R50284

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *12-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: MW1231I
Lab ID: J1299-13
Project: Verona NY LTM Site
Collection Date: 06/24/10 11:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							**E300IC_W**
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	06/25/2010 14:34	52611
Sulfate	5.8	B	5.0	mg/L	1	06/25/2010 14:34	52611
SM 2320 -- ALKALINITY (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	210		20	mg/L CaCO3	1	06/29/2010 14:40	52686
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	530		10	mg/L	1	06/30/2010 2:20	52687
SM 4500 CO2 -- FREE CARBON DIOXIDE by Calculation							**SM4500_CALC_CO2_W**
Carbon dioxide, Free	98		10	mg/L	1	06/29/2010 14:38	R50638
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.6		1.0	S.U.	1	06/25/2010 12:38	R50284

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *12-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: SW-01
Lab ID: J1299-14

Project: Verona NY LTM Site
Collection Date: 06/24/10 14:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							**E300IC_W**
Nitrogen, Nitrate (As N)	0.073	J	0.13	mg/L	1	06/25/2010 15:09	52611
Sulfate	0.90	BJ	5.0	mg/L	1	06/25/2010 15:09	52611
SM 2320 -- ALKALINITY (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	670		20	mg/L CaCO3	1	06/29/2010 14:42	52686
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	260		10	mg/L	1	06/30/2010 3:34	52687
SM 4500 CO2 -- FREE CARBON DIOXIDE by Calculation							**SM4500_CALC_CO2_W**
Carbon dioxide, Free	170		10	mg/L	1	06/29/2010 14:41	R50638
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.9		1.0	S.U.	1	06/25/2010 12:43	R50284

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *12-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: SW-02
Lab ID: J1299-15

Project: Verona NY LTM Site
Collection Date: 06/24/10 14:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							**E300IC_W**
Nitrogen, Nitrate (As N)	0.11	J	0.13	mg/L	1	06/25/2010 15:21	52611
Sulfate	1.5	BJ	5.0	mg/L	1	06/25/2010 15:21	52611
SM 2320 -- ALKALINITY (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	210		20	mg/L CaCO3	1	06/29/2010 14:45	52686
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	270		10	mg/L	1	06/30/2010 4:48	52687
SM 4500 CO2 -- FREE CARBON DIOXIDE by Calculation							**SM4500_CALC_CO2_W**
Carbon dioxide, Free	ND		10	mg/L	1	06/29/2010 14:44	R50638
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	7.9		1.0	S.U.	1	06/25/2010 12:49	R50284

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *12-Jul-10*

Client: Lu Engineering and Land Surveying P.C.
Client Sample ID: SW-03
Lab ID: J1299-16

Project: Verona NY LTM Site
Collection Date: 06/24/10 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Ion Chromotography (LOW)							**E300IC_W**
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	06/25/2010 15:33	52611
Sulfate	1.8	BJ	5.0	mg/L	1	06/25/2010 15:33	52611
SM 2320 -- ALKALINITY (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	210		20	mg/L CaCO3	1	06/29/2010 14:47	52686
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	260		10	mg/L	1	06/30/2010 6:02	52687
SM 4500 CO2 -- FREE CARBON DIOXIDE by Calculation							**SM4500_CALC_CO2_W**
Carbon dioxide, Free	ND		10	mg/L	1	06/29/2010 14:47	R50638
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	7.7		1.0	S.U.	1	06/25/2010 12:54	R50284

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Lu Engineering and Land Surveying P.C.
Work Order: J1299
Project: Verona NY LTM Site

ANALYTICAL QC SUMMARY REPORT

E300IC_W

EPA 300.0 -- Ion Chromotography (LOW)

Sample ID: **MB-52579** SampType: **MBLK** TestCode: **E300IC_W** Prep Date: **06/24/10 12:07** Run ID: **IC1_100624A**
Client ID: **MB-52579** Batch ID: **52579** Units: **mg/L** Analysis Date: **06/24/10 12:28** SeqNo: **1324732**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	ND	0.022	0.13									
Sulfate	ND	0.19	5.0									

Sample ID: **MB-52611** SampType: **MBLK** TestCode: **E300IC_W** Prep Date: **06/25/10 12:13** Run ID: **IC1_100625B**
Client ID: **MB-52611** Batch ID: **52611** Units: **mg/L** Analysis Date: **06/25/10 12:59** SeqNo: **1326134**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	ND	0.022	0.13									
Sulfate	0.2391	0.19	5.0									J

Sample ID: **LCS-52579** SampType: **LCS** TestCode: **E300IC_W** Prep Date: **06/24/10 12:07** Run ID: **IC1_100624A**
Client ID: **LCS-52579** Batch ID: **52579** Units: **mg/L** Analysis Date: **06/24/10 12:40** SeqNo: **1324733**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	0.9835	0.022	0.13	1.000	0	98.3	90	110	0			
Sulfate	41.52	0.19	5.0	40.00	0	104	90	110	0			

Sample ID: **LCS-52611** SampType: **LCS** TestCode: **E300IC_W** Prep Date: **06/25/10 12:13** Run ID: **IC1_100625B**
Client ID: **LCS-52611** Batch ID: **52611** Units: **mg/L** Analysis Date: **06/25/10 13:12** SeqNo: **1326135**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	0.9893	0.022	0.13	1.000	0	98.9	90	110	0			
Sulfate	41.81	0.19	5.0	40.00	0	105	90	110	0			B

Sample ID: **J1299-04DMS** SampType: **MS** TestCode: **E300IC_W** Prep Date: **06/24/10 12:07** Run ID: **IC1_100624A**
Client ID: **MW1253H** Batch ID: **52579** Units: **mg/L** Analysis Date: **06/24/10 13:38** SeqNo: **1324738**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	0.8892	0.022	0.13	1.000	0	88.9	80	120	0			
Sulfate	56.19	0.19	5.0	40.00	16.86	98.3	80	120	0			

SGS

Qualifiers: ND - Not Detected at the Reporting Limit; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
m10.07.02.A J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Lu Engineering and Land Surveying P.C.
Work Order: J1299
Project: Verona NY LTM Site

ANALYTICAL QC SUMMARY REPORT

E300IC_W

EPA 300.0 -- Ion Chromotography (LOW)

Sample ID: J1299-16DMS	SampType: MS	TestCode: E300IC_W	Prep Date: 06/25/10 12:13	Run ID: IC1_100625B
Client ID: SW-03	Batch ID: 52611	Units: mg/L	Analysis Date: 06/25/10 15:44	SeqNo: 1326148

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	0.8853	0.022	0.13	1.000	0	88.5	80	120	0			
Sulfate	38.77	0.19	5.0	40.00	1.793	92.4	80	120	0			B

Sample ID: J1299-04DMSD	SampType: MSD	TestCode: E300IC_W	Prep Date: 06/24/10 12:07	Run ID: IC1_100624A
Client ID: MW1253H	Batch ID: 52579	Units: mg/L	Analysis Date: 06/24/10 13:50	SeqNo: 1324739

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	0.9906	0.022	0.13	1.000	0	99.1	80	120	0.8892	10.8	20	
Sulfate	56.06	0.19	5.0	40.00	16.86	98.0	80	120	56.19	0.244	20	

Sample ID: J1299-16DMSD	SampType: MSD	TestCode: E300IC_W	Prep Date: 06/25/10 12:13	Run ID: IC1_100625B
Client ID: SW-03	Batch ID: 52611	Units: mg/L	Analysis Date: 06/25/10 15:56	SeqNo: 1326149

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	0.8961	0.022	0.13	1.000	0	89.6	80	120	0.8853	1.22	20	
Sulfate	38.90	0.19	5.0	40.00	1.793	92.8	80	120	38.77	0.332	20	B

SGS

Qualifiers: ND - Not Detected at the Reporting Limit; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Lu Engineering and Land Surveying P.C.
Work Order: J1299
Project: Verona NY LTM Site

ANALYTICAL QC SUMMARY REPORT

SM2320_W
SM 2320 -- ALKALINITY (Total)

Sample ID: **MB-52686**	SampType: **MBLK**	TestCode: **SM2320_W**			Prep Date: **06/29/10 14:05**			Run ID: **MANUAL_100629D**				
Client ID: **MB-52686**	Batch ID: **52686**	Units: **mg/L CaCO3**			Analysis Date: **06/29/10 14:05**			SeqNo: **1330193**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	20	20									

Sample ID: **LCS-52686**	SampType: **LCS**	TestCode: **SM2320_W**			Prep Date: **06/29/10 14:05**			Run ID: **MANUAL_100629D**				
Client ID: **LCS-52686**	Batch ID: **52686**	Units: **mg/L CaCO3**			Analysis Date: **06/29/10 14:07**			SeqNo: **1330194**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	40.00	20	20	41.40	0	96.6	80	120	0			

Sample ID: **J1299-04DDUP**	SampType: **DUP**	TestCode: **SM2320_W**			Prep Date: **06/29/10 14:05**			Run ID: **MANUAL_100629D**				
Client ID: **MW1253H**	Batch ID: **52686**	Units: **mg/L CaCO3**			Analysis Date: **06/29/10 14:19**			SeqNo: **1330199**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	430.0	20	20	0	0	0	0	0	430.0	0	20	

Sample ID: **J1299-04DMS**	SampType: **MS**	TestCode: **SM2320_W**			Prep Date: **06/29/10 14:05**			Run ID: **MANUAL_100629D**				
Client ID: **MW1253H**	Batch ID: **52686**	Units: **mg/L CaCO3**			Analysis Date: **06/29/10 14:21**			SeqNo: **1330200**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	480.0	20	20	53.00	430.0	94.3	75	125	0			

Qualifiers: ND - Not Detected at the Reporting Limit; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank

m10.07.02.A J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Lu Engineering and Land Surveying P.C.
Work Order: J1299
Project: Verona NY LTM Site

ANALYTICAL QC SUMMARY REPORT

SM2540_TDS
SM 2540C -- TOTAL DISSOLVED SOLIDS

Sample ID: MB-52651	SampType: MBLK	TestCode: SM2540_TDS	Prep Date: 06/28/10 16:30	Run ID: MANUAL_100628A
Client ID: MB-52651	Batch ID: 52651	Units: mg/L	Analysis Date: 06/28/10 16:30	SeqNo: 1330165

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	10	10									

Sample ID: MB-52687	SampType: MBLK	TestCode: SM2540_TDS	Prep Date: 06/29/10 16:30	Run ID: MANUAL_100629C
Client ID: MB-52687	Batch ID: 52687	Units: mg/L	Analysis Date: 06/29/10 16:30	SeqNo: 1330180

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	10	10									

Sample ID: LCS-52651	SampType: LCS	TestCode: SM2540_TDS	Prep Date: 06/28/10 16:30	Run ID: MANUAL_100628A
Client ID: LCS-52651	Batch ID: 52651	Units: mg/L	Analysis Date: 06/28/10 18:06	SeqNo: 1330166

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	348.0	10	10	350.0	0	99.4	80	120	0			

Sample ID: LCS-52687	SampType: LCS	TestCode: SM2540_TDS	Prep Date: 06/29/10 16:30	Run ID: MANUAL_100629C
Client ID: LCS-52687	Batch ID: 52687	Units: mg/L	Analysis Date: 06/29/10 17:43	SeqNo: 1330181

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	338.0	10	10	350.0	0	96.6	80	120	0			

Sample ID: J1299-04DDUP	SampType: DUP	TestCode: SM2540_TDS	Prep Date: 06/28/10 16:30	Run ID: MANUAL_100628A
Client ID: MW1253H	Batch ID: 52651	Units: mg/L	Analysis Date: 06/29/10 5:18	SeqNo: 1330173

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	340.0	10	10	0	0	0	0	0	359.0	5.44	20	

Sample ID: J1299-16DDUP	SampType: DUP	TestCode: SM2540_TDS	Prep Date: 06/29/10 16:30	Run ID: MANUAL_100629C
Client ID: SW-03	Batch ID: 52687	Units: mg/L	Analysis Date: 06/30/10 7:16	SeqNo: 1330192

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	274.0	10	10	0	0	0	0	0	261.0	4.86	20	

S20

Qualifiers: ND - Not Detected at the Reporting Limit; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank

m10.07.02.A J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Lu Engineering and Land Surveying P.C.
Work Order: J1299
Project: Verona NY LTM Site

ANALYTICAL QC SUMMARY REPORT

SM4500_CALC_CO2_W

SM 4500 CO2 -- FREE CARBON DIOXIDE by Calculation

Sample ID: **J1299-04DDUP** SampType: **DUP** TestCode: **SM4500_CALC_CO2_W** Prep Date: Run ID: **MANUAL_100629E**
Client ID: **MW1253H** Batch ID: **R50638** Units: **mg/L** Analysis Date: **06/29/10 14:16** SeqNo: **1337106**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide, Free	156.4	10	10	0	0	0	0	0	160.1	2.3	20	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
m10.07.02.A J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Lu Engineering and Land Surveying P.C.
Work Order: J1299
Project: Verona NY LTM Site

ANALYTICAL QC SUMMARY REPORT

SM4500_H+
SM 4500 H+ B -- pH VALUE

Sample ID: **J1299-04DDUP** SampType: **DUP** TestCode: **SM4500_H+** Prep Date: Run ID: **PH METER_100624A**
Client ID: **MW1253H** Batch ID: **R50296** Units: **S.U.** Analysis Date: **06/24/10 12:40** SeqNo: **1327186**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.740	1.0	1.0	0	0	0	0	0	6.730	0.148	20	

Sample ID: **J1299-10DDUP** SampType: **DUP** TestCode: **SM4500_H+** Prep Date: Run ID: **PH METER_100625A**
Client ID: **MW1231F** Batch ID: **R50284** Units: **S.U.** Analysis Date: **06/25/10 12:21** SeqNo: **1326914**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.230	1.0	1.0	0	0	0	0	0	7.250	0.276	20	

5268

Qualifiers: ND - Not Detected at the Reporting Limit; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

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