

**Environmental Restoration Program
Final Technical Memorandum
Supplemental Remedial Investigation/Pilot Test**

**174th Fighter Wing
New York Air National Guard
Hancock Air National Guard Base
Syracuse, New York**

March 2010



**NGB/A7OR
Andrews AFB, Maryland**

**Environmental Restoration Program
Final Technical Memorandum
Supplemental Remedial Investigation/Pilot Test**

**174th Fighter Wing
New York Air National Guard
Hancock Air National Guard Base
Syracuse, New York**

March 2010

Prepared For:

**Air National Guard
Andrews AFB, Maryland
Contract No. DAHA92-01-D-005
Delivery Order 0109**

Prepared By:



**Environmental Resources Management
5788 Widewaters Parkway
DeWitt, New York 13214**

TABLE OF CONTENTS

LIST OF FIGURES	iii
LIST OF TABLES	iv
LIST OF ACRONYMS	v
EXECUTIVE SUMMARY	vii
SECTION 1.0	1-1
INTRODUCTION	1-1
1.1 Project Objectives and Scope	1-2
1.2 General Investigation Approach	1-3
1.3 Technical Memorandum Structure	1-3
SECTION 2.0	2-1
SITE DESCRIPTION	2-1
2.1 Installation Description	2-1
2.2 Site 15 Description	2-1
2.3 Summary of Remedial Investigation Results	2-2
SECTION 3.0	3-1
ENVIRONMENTAL SETTING	3-1
3.1 Climate	3-1
3.2 Topography	3-1
3.3 Geology	3-1
3.4 Hydrogeology	3-2
3.5 Critical Habitats and Endangered Species	3-2
SECTION 4.0	4-1
FIELD PROGRAM	4-1
4.1 Summary	4-1
4.1.1 Access Agreements	4-2
4.1.2 Direct-Push Investigation South and East of GE Property	4-2
4.1.3 Pilot Test Phase	4-4
4.1.4 Borings Along Fairway Drive and Monitoring Well Installations	4-6
4.1.5 Groundwater Sampling	4-8
4.1.6 Soil Vapor Survey	4-9
4.2 Deviations from the Work Plan	4-10
4.3 Field Screening Activities	4-11

TABLE OF CONTENTS

4.4	Analytical Activities	4-11
4.5	Investigation-Derived Waste Management	4-11
SECTION 5.0		5-1
INVESTIGATION FINDINGS		5-1
5.1	Summary	5-1
5.2	Field Findings	5-1
	5.2.1 Direct-Push Investigation South and East of GE Property	5-2
	5.2.2 Pilot Test Phase	5-2
	5.2.3 Borings Along Fairway Drive and Monitoring Well Installations	5-3
	5.2.4 Groundwater Sampling	5-4
	5.2.5 Soil Vapor Survey	5-5
SECTION 6.0		6-1
CONCLUSIONS		6-1
SECTION 7.0		7-1
RECOMMENDATIONS		7-1
SECTION 8.0		8-1
REFERENCES		8-1
APPENDIX A		
DAILY FIELD LOGS		
APPENDIX B		
SOIL BORING LOGS AND FIELD DATA		
APPENDIX C		
LABORATORY REPORTS		
APPENDIX D		
QA/QC EVALUATION RESULTS		

LIST OF FIGURES

FIGURE 1	Site Location Map
FIGURE 2	Site Layout Map
FIGURE 3	2009 Investigation Boring Locations
FIGURE 4	Pilot Test Activity Locations
FIGURE 5	Static Groundwater Contour Map – October 2009
FIGURE 6	Estimated BTEX Extent – 1995 to 2009
FIGURE 7	Groundwater Isoconcentration Map, Benzene – October 2009
FIGURE 8	Groundwater Isoconcentration Map, Ethylbenzene – October 2009
FIGURE 9	Groundwater Isoconcentration Map, Xylenes – October 2009

LIST OF TABLES

TABLE 1	Summary of Samples
TABLE 2	Summary of Off-Site Direct-Push Investigation Data - Groundwater
TABLE 3	Summary of Groundwater Elevation Data - October 2009
TABLE 4	Summary of Groundwater Analytical Data - October 2009

LIST OF ACRONYMS

<u>Acronym</u>	<u>Definition</u>
µg/L	Micrograms per liter (parts per billion)
AFB	Air Force Base
ANG	Air National Guard
AOC	Area of Concern
BEX	Benzene, Ethylbenzene and Xylenes
BGC	Brooklawn Golf Course
bgs	Below ground surface
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
CaO ₂	Calcium Peroxide
DPI	Direct-Push Investigation
ERM	Environmental Resources Management
FFS	Focused Feasibility Study
ft	Feet
FW	Fighter Wing
GE	General Electric
Hancock ANGB	Hancock Air National Guard Base
IDW	Investigation Derived Waste
IRA	Interim Remedial Action
LSL	Life Science Laboratories
MW	Monitoring Well
ND	Non-detect
NTU	Nephelometric Turbidity Unit
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCB	Poly-chlorinated Bi-phenol
PID	Photoionization Detector
ppm	Parts per million
PT	Pilot Test
QA/QC	Quality Assurance/Quality Control
RamTech	Raman and Borick Technical Consultants
RI	Remedial Investigation
SCG	Standards, Criteria, and Guidance
TM	Technical Memorandum
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

Environmental Resources Management (ERM) is assisting the Air National Guard (ANG) with an Interim Remedial Action (IRA) at Site 15 of the 174th Fighter Wing (FW), Hancock ANGB in DeWitt, New York. The ANG requested ERM to prepare a technical and cost proposal associated with their 3 April 2008 letter and Statement of Work entitled "Statement of Work - Environmental Restoration Program Services for Supplemental Remedial Investigation (RI) and Focused Feasibility Study (FFS) at 174th FW; Hancock ANGB; Syracuse, New York; Project Number: HAAW20077054." The ANG accepted ERM's technical cost proposal on 11 June 2008.

During the investigation associated with ERM's June 2008 Technical Memorandum (TM) for Site 15, ERM recommended an additional investigation and remediation of Site 15, including the off-site portion of the plume.

ERM prepared and submitted the Site 15 Supplemental RI/Pilot Test (PT) Work Plan in October 2008. This Work Plan addressed a Supplemental RI and an enhanced natural attenuation PT that was to be conducted at the 174th FW. All data collected during execution of the Work Plan is presented in this TM.

ERM conducted the work outlined in the Work Plan in four phases. The first phase of work included a direct-push investigation on Niagara Mohawk Power Company dba National Grid property adjacent to the southern and eastern property lines of General Electric (GE) to determine if benzene, ethylbenzene, and xylenes (BEX)-affected soil and/or groundwater were located in these areas. The second phase of work included a baseline groundwater sampling effort in selected wells followed by the PT injection of calcium peroxide (CaO₂) in 20 locations. The third phase of work was along the western edge of the GE property on the unpaved portion of Fairway Drive and along the southeast portions of Brooklawn Golf Course (BGC) and included a direct-push investigation to determine if BEX-affected soil and/or groundwater were located in these areas. This third phase also included the installation of two additional permanent monitoring wells, one south of the GE property line and one east of the GE property line with a follow-up of an additional round of sampling of the previously referenced (second phase) selected wells plus the two new wells. The fourth phase consisted of a soil vapor

evaluation adjacent to the Raman and Borick Technical Consultants (RamTech) Facility and along the northern property line of GE and a groundwater sampling event that incorporated all existing wells.

Based on this additional investigation described in this TM, the extent of benzene, toluene, ethylbenzene, and xylenes (BTEX)/BEX-affected groundwater has been delineated on the Hancock ANGB property, BGC property, and the RamTech property with the plume dissipating within the boundaries of the GE Property. The PT indicated that the injection of CaO₂ enhanced the natural attenuation process. Evaluation of soil vapor concentrations in the vicinity of the RamTech building indicates that indoor air sampling should be performed.

ERM recommends the following actions based on the results of the Supplemental RI to facilitate remediation of Site 15, including the off-site portion of the plume:

- A formal Addendum to the February 2002 FFS Report should be prepared incorporating the significant amount of additional data obtained during the recent investigations and the proposed IRA. A Draft FFS was presented to ANG in September 2008 and the Draft Final revision is being developed in conjunction with this TM.
- The preparation of a Proposed Plan and Record of Decision using available Supplemental Remedial Investigation and Pilot Study data should be conducted upon ANG and New York State Department of Environmental Conservation (NYSDEC) approval of the upcoming Draft Final and Final Focused Feasibility Study Reports.
- Based on currently available information, ERM recommends conducting an indoor air evaluation at the RamTech Engineering Building.
- Continue monitoring natural attenuation at the monitoring wells on Site 15 and down gradient through appropriate sampling, laboratory analyses, and associated reporting prior to implementation of the final approved remedial alternative.

SECTION 1.0

INTRODUCTION

ERM is assisting the Air National Guard ANG with an IRA at Site 15 of the 174th FW, Hancock ANGB in DeWitt, New York. The ANG requested ERM to prepare a technical and cost proposal associated with their 3 April 2008 letter and Statement of Work entitled "Statement of Work - Environmental Restoration Program Services for Supplemental RI/FFS at 174th FW; Hancock ANGB; Syracuse, New York; Project Number: HAAW20077054". The ANG accepted ERM's technical cost proposal on 11 June 2008.

During the investigation associated with ERM's June 2008 TM for Site 15 (See [Figure 1](#) for a Site Location Map and [Figure 2](#) for a Site Layout Map), ERM recommended the following actions based on the results of the Supplemental RI to facilitate additional investigation and remediation of Site 15, including the off-site portion of the plume.

- A soil IRA consisting of the excavation and off-site disposal of approximately 3,000-tons of petroleum-affected soil from the unsaturated zone in the on-site source area near the former pump house should be performed. The removal of remaining residual petroleum in soil above the groundwater table will prevent or minimize additional contamination of Site 15 groundwater and therefore will improve the effectiveness of the contemplated groundwater remediation. This recommended soil IRA was performed in August 2008 and has been detailed in a Construction Completion Report dated January 2009.
- A groundwater IRA/PT consisting of enhanced in situ bioremediation was recommended at selected locations to prevent or minimize additional migration of the BTEX plume on down-gradient properties. Based on available information, it was anticipated that the groundwater IRA/PT would be performed at the following locations:
 1. The current leading edge of the plume off-site on the BGC and the RamTech properties immediately adjacent to Fairway Drive;
 2. The Base property boundary; and

3. A soil hotspot located in the source area of Site 15 (near the former pump house).
- Delineation of the full extent of the BTEX plume on properties south and southeast of the RamTech Facility was also recommended. Collection of additional data in these area(s) will allow for preparation of a more complete FFS Report and Record of Decision.

ERM prepared and submitted the Site 15 Supplemental RI/PT Work Plan in October 2008. This Work Plan addressed a Supplemental RI and an enhanced natural attenuation PT that was conducted at the 174th FW. All data collected during execution of the Work Plan is presented in this TM.

1.1 Project Objectives and Scope

The objective of the Supplemental RI is to characterize the down-gradient leading edge of the BEX plume on properties south of the 174th FW.

The scope of work for the Supplemental RI was to:

- Install up to 40 soil borings using direct-push technology;
- Collect up to 30 groundwater samples for laboratory analysis of BEX;
- Install six to eight monitoring wells;
- Develop and survey the monitoring wells; and
- Collect groundwater samples from the newly installed wells for laboratory analysis of BEX and natural attenuation parameters.

The objectives of the enhanced natural attenuation PT were to:

- Evaluate the effectiveness of enhanced natural attenuation in treating BEX in groundwater; and
- Prevent further migration of the BEX plume onto down-gradient properties.

The scope of work for the enhanced natural attenuation PT was to:

- Install up to 20 injection points using a Geoprobe[®] rig;
- Inject CaO₂ into the groundwater; and

- Collect groundwater samples from all existing monitoring wells and submit the samples for laboratory analysis of BEX, alkalinity, ammonia, methane, nitrate, sulfate, total hardness, and ferrous iron.

All activities were conducted in accordance with the United States Environmental Protection Agency (USEPA) guidance documents, ANG requirements, and NYSDEC regulations.

1.2 General Investigation Approach

The proposed Supplemental RI approach as presented in the Work Plan included the following main components:

- Perform an off-site direct-push investigation (DPI) to evaluate the current extent of BTEX-affected groundwater and obtain additional hydrogeologic information potentially relevant to site remediation.
- Install permanent monitoring wells south and east of the RamTech Facility and GE, at locations to be determined subsequent to review of results from the direct-push investigation.
- Perform the CaO₂ PT as described.
- The new monitoring wells will be developed and all existing and new wells sampled to evaluate current groundwater conditions.

All work performed during the Supplemental RI was performed according to the NYSDEC-approved Site-Specific Health and Safety Plan. In addition, ERM performed a soil vapor evaluation adjacent to the RamTech Facility and their southern boundary (Northern boundary of GE) to evaluate the potential for soil vapor intrusion issues in off-site buildings.

1.3 Technical Memorandum Structure

This TM was written in general conformance with the guidelines presented in ANG's *Environmental Restoration Program Investigation Guidance* (ANG 2005). It provides a description of the planned activities and is organized as follows:

- [Section 1.0](#) – Introduction;

- [Section 2.0](#) – Site Description;
- [Section 3.0](#) – Environmental Setting;
- [Section 4.0](#) – Field Program;
- [Section 5.0](#) – Investigation Findings;
- [Section 6.0](#) – Conclusions;
- [Section 7.0](#) – Recommendations;
- [Section 8.0](#) – References;
- [Appendix A](#) – Daily Field Logs;
- [Appendix B](#) – Soil Boring Logs and Field Data;
- [Appendix C](#) – Laboratory Reports; and
- [Appendix D](#)– QA/QC Evaluation Results.

SECTION 2.0

SITE DESCRIPTION**2.1 Installation Description**

This section provides an overview of the project site as related to the Hancock ANGB Supplemental RI. The 174th FW of the New York ANG is based at Hancock Field, an active international airport and a former Air Force Base (AFB) located 2 miles north-northeast of the City of Syracuse in Onondaga County in central New York ([Figure 1](#)). The 174th FW supplies air reconnaissance for the eastern portion of the United States.

The ANG facility is currently operating within the southern portion of the former Hancock AFB located south of the municipal airport. Facilities on the base include hangars, support buildings, offices and maintenance buildings ([Figure 2](#)). The ANG Readiness Center at Andrews AFB in Maryland manages Installation Restoration Program-related efforts for ANG installations. Hancock ANGB is bordered by the airport to the north, the Town of Dewitt to the east and south, and the Town of Salina to the west.

2.2 Site 15 Description

Site 15 was formerly used as a pump house. It is approximately 2.5 acres in area, and originally consisted of brush and wooded vegetation, a large concrete pad, a bermed area where a 215,000-gallon aboveground tank was formerly located, and two drainage swales. One drainage swale borders the Site along the north-northeast side, and a second drainage swale borders the west side of the Site. The drainage swales contain water only intermittently following storm events. Water within the drainage swales does not appear to be hydraulically connected to underlying groundwater (Parsons 2004).

Site 15 has sustained spills of polychlorinated biphenyl, Jet Propulsion (JP)-4, and JP-8 fuels over the years. Several Site structures were removed in 2003 as part of a removal action for polychlorinated biphenyl -impacted soils. Structures removed include a transformer pad, the foundation of

the former pump house, and associated underground structures consisting of six underground tanks, three drainage sumps, and an oil-water separator (Parsons 2004).

2.3 Summary of Remedial Investigation Results

During RI activities conducted in 2006, elevated photoionization detector (PID) readings and visual evidence of residual petroleum (sheen) were noted in soil overlying the groundwater table within the former pump house area at Site 15. A total of 44 soil borings were installed during a supplemental RI in August 2007 to delineate the extent of the source area located above saturated soil at Site 15. PID results from soil screening in the unsaturated zone ranged from not-detected to 1,754 parts per million (ppm) in the soil borings at Site 15.

Ten soil samples were selected for laboratory analysis based on field observation at the sample location and also to cover the full spectrum of recorded volatile organic compound (VOC) concentrations measured in the field with a calibrated PID. One of the ten soil samples contained compounds of potential concern at concentrations exceeding recommended soil cleanup objectives for protection of groundwater as outlined in NYSDEC Part 375-6.8(b). Specific VOCs that exceeded recommended soil cleanup objectives include BEX.

ERM performed a supplemental investigation in August 2007 and January/February 2008 to delineate BEX-impacted soil in the former source area, and the leading edge of the dissolved BEX plume on off-site RamTech property. The off-site portion of the supplemental investigation involved the installation of soil borings and monitoring wells using direct -push technology.

Geologic cross sections of the subsurface soil on the 174th FW and down-gradient off-site areas suggest that a sand channel within the soil may be a preferential flow path for dissolved-phase VOCs.

The data indicated that BEX were detected at concentrations greater than the respective NYSDEC standards of 1.0 micrograms per liter ($\mu\text{g/L}$), 5.0 $\mu\text{g/L}$, and 5 $\mu\text{g/L}$, respectively. In addition, the leading edge of the BEX plumes were not laterally defined in the down-gradient area located south of the off-site RamTech facility, and additional characterization was required to adequately characterize the plumes. Concentrations of methyl

tert-butyl ether and toluene were not detected above the respective NYSDEC standards in the sampled wells.

SECTION 3.0

ENVIRONMENTAL SETTING

This section summarizes pertinent information relative to the environmental setting of the project site as related to the Supplemental RI.

3.1 Climate

Syracuse has a four-season continental climate with marked seasonal changes. Geographical location, cyclonic systems and cold air masses affect the Syracuse weather, making winters cold with significant amounts of snow. During the summer and parts of spring and autumn, temperatures customarily rise during the daytime to fall rapidly after sunset, so the nights are relatively cool and comfortable. Temperatures (Fahrenheit) average 23 degrees in January; 46 degrees in April; 70 degrees in July; and 61 degrees in September.

3.2 Topography

The Hancock ANG Base is in Onondaga County in the northwest portion of the United States Geologic Survey Syracuse East quadrangle. The Hancock ANG Base is on generally flat terrain gently sloping to the southeast. Surface elevations generally range from 395 to 415 feet (ft) above mean sea level

3.3 Geology

The surficial geology at Site 15 consists of glaciofluvial sediments deposited by glacial meltwater underlying by poorly sorted till deposited directly by glaciers. The glaciofluvial sediments include silty clays, sands, and gravels, with thickness ranging from 45 to 55 ft. The underlying till consists of gravel, cobbles, and boulders entrained in a silty clay matrix and ranges in thickness from 30 to 100 ft (Lockheed 1997).

Bedrock is encountered at depths ranging from 75 to 109 ft below ground surface (bgs), and is one of the Upper Silurian Vernon Formation. This formation consists of thinly bedded soft red shale with thin beds of green shale, gypsum, halite, and dolomite. Competence varies from soft and crumbly to dense and hard. The degree of competence appears to be proportional to the density of the fractures in the shale. The shale is characterized by enlarged fractures, joints, and bedding planes (Lockheed 1997).

3.4 Hydrogeology

The overburden at Site 15 consists of fine-grained sediments. The subgrade soils are fairly uniform, with the upper 10 to 15 ft of the soil characterized by relatively soft, dark yellowish-brown silt and silty clay. Towards the southeast the interval thins to approximately 5 ft. Beneath the silty clay are fine- to medium-grained sands, yellowish brown to dark brown with silt, and trace amounts of clay down to a depth of approximately 20 ft. Underlying these silty sands is a lens of stiff clayey silts (often called glacial till). Till was encountered at as much as 15 ft thick (Lockheed 1997).

3.5 Critical Habitats and Endangered Species

There are no known occurrences of endangered plant or animal species within or near the Site.

SECTION 4.0

FIELD PROGRAM**4.1 Summary**

ERM conducted the work outlined in the Work Plan in four phases as outlined below:

- 1) The first phase of work included a DPI on National Grid property adjacent to the southern and eastern property lines of GE to determine if BEX-affected soil and/or groundwater were located in these areas. ERM initiated the investigation south and east of the GE Property in February 2009.
- 2) The second phase of work included a baseline groundwater sampling effort in selected wells followed by the PT injection of CaO₂ in 20 locations. The PT (second) phase of the investigation was initiated in April 2009.
- 3) The third phase of work was along the western edge of the GE property on the unpaved portion of Fairway Drive and along the southeast portions of BGC and included a DPI to determine if BEX-affected soil and/or groundwater were located in these areas. This third phase also included the installation of two additional permanent monitoring wells, one south of the GE property line and one east of the GE property line with a follow-up of an additional round of sampling of the previously referenced (second phase) selected wells plus the two new wells. The third phase of the investigation west of GE Property and along the unpaved portion of Fairway Drive was initiated at the end of July 2009
- 4) The fourth phase consisted of a soil vapor evaluation adjacent to the RamTech Facility and along the northern property line of GE and a groundwater sampling event that incorporated all existing wells and the two newly-installed wells. The fourth phase was performed in October 2009. The investigative activities and sampling events are summarized in this section. Daily Field Logs associated with the above referenced activities are presented in [Appendix A](#).

4.1.1 Access Agreement

The ANG worked with PCI Paper Conversions Inc., National Grid, the Estate of Anne R. Easter (the BGC), Midcourt Builders Corporation, and RamTech to attain access agreements to continue the investigation along the leading edge of the BEX-affected groundwater. Data from ERM's 2007 investigation on RamTech property suggested that BEX concentrations exceeding regulatory standards migrated down-gradient onto the GE property and potentially the National Grid and PCI properties. ERM proposed a DPI to delineate the leading edge of the plume, including borings and wells on GE, National Grid, and PCI Paper Conversions Inc. property. ANG arranged and received access agreements from PCI Paper Conversions Inc., National Grid, BGC, Midcourt Builders Corporation, and RamTech. ANG contacted GE concerning site access and GE responded by placing restrictions and requests of the ANG that would set precedents thus delaying access for the investigation. Based on discussions with ANG personnel, it was determined that the off-site investigation should proceed as soon as possible without the access agreement with GE due to concerns relating to possible expansion of the groundwater plume.

4.1.2 Direct-Push Investigation South and East of GE Property

The drilling subcontractor filed a request through Dig Safely New York for subsurface utility clearance of member companies. ERM conducted a geo-physical survey with New York Leak Detection at each proposed boring location to verify that underground utilities were not present.

ERM used USEPA's Triad Approach to implement a soil boring program in the vicinity of soil borings GP-123 through GP-141 as shown on referenced on [Figure 3](#). ERM set up a boring grid at approximate 30-foot spacing along the southern and eastern property lines of GE (Note: All borings were accessed and installed on National Grid Property and PCI Property).

The DPI was conducted using a Geoprobe®. Macrocore samplers were used to collect continuous soil cores during drilling operations. An ERM geologist inspected the soil cores and recorded soil color, grain size, moisture content, field-screening results, percent recovery, and other pertinent observations on soil boring logs ([Appendix B](#)). A calibrated PID was used to conduct headspace VOC screening of the soil cores. As per previous investigations, "Clean" soils were determined based upon field

screening of soil with a PID reading less than 20 ppm. This investigation did not reveal any samples greater than 0.3 ppm, thus no soil samples were retained or submitted for laboratory analysis. Each soil boring was advanced to saturated soil conditions (approximately 19 to 25 ft bgs) to the geologic unit where BEX-affected groundwater has been encountered during previous investigations.

All of the soil borings were extended into the groundwater table and groundwater samples were collected using an SP-16 sampler. The SP-16 sampler was driven with a Geoprobe® to the desired sample interval based on field observation and screening. The protective casing on the sampler was pulled back to expose the 4-foot screen within the desired sample interval. A peristaltic pump and dedicated polyethylene tubing were utilized to purge groundwater from the temporary sampling point. ERM purged approximately 1 gallon from each of the temporary points prior to collection of representative groundwater samples into laboratory-supplied sample containers. Water samples were held under proper chain-of-custody and were stored in pre-chilled coolers until they were transported to Life Science Laboratories, Inc. (LSL) in East Syracuse, New York, an Environmental Laboratory Approved Program certified laboratory for analyses. Sample from soil borings obtained during this investigation are presented in [Table 1](#). Laboratory Data associated with the samples collected from the soil borings are presented in [Table 2](#).

Soil boring locations were marked with temporary field markers until the location and elevation were surveyed by a New York-licensed surveyor. Surveying was conducted as soon as the intrusive work was completed. In addition, ERM kept a project map updated during the DPI with each of the soil boring locations marked out as they were completed. The following pertinent information was recorded to assess the field data as it was collected:

- Designation of the borings;
- Location of the boring (using a measuring tape and global positioning system coordinates);
- Highest PID reading recorded at the boring and the depth below surface grade;
- Depth of saturated soil;
- Depth of the contact with the sand geologic unit; and
- Visual or olfactory field observations.

4.1.3 Pilot Test Phase

Due to delays in getting agreement with GE to access their site to continue the Supplemental RI, ANG and ERM discussed the most logical step in keeping the project moving forward. It was agreed that a “baseline” round of groundwater sampling from select monitoring wells adjacent and down-gradient of the PT be sampled prior to performing the PT.

On 13 April 2009, the following monitoring wells were sampled: Monitoring Well (MW)-19, MW-105, MW-106, MW-107, MW-111 and MW-112. The wells were sampled in general conformance with USEPA low-flow (minimal drawdown) well purging and sample collection techniques (USEPA 1996). The low-flow groundwater purging/sampling technique employs the use of a flow-through cell equipped with probes connected to an electronic water quality meter for measuring parameters such as pH, temperature, conductivity, dissolved oxygen, and oxidation reduction potential. Examples of water quality meters that may be used include the Horiba U-22 and the YSI 600XL.

The following general procedures were used for this “baseline” groundwater sampling event:

- Monitoring wells were located in the field and opened to allow access for sampling activities. The exterior of each well was visually inspected for signs of damage or tampering and relevant information will be recorded in the field notebook or on an appropriate form.
- Field personnel wore appropriate health and safety equipment as outlined in the Level II Health and Safety Form. Samplers put on new sampling gloves at each individual well location prior to sampling.
- The locking well cap was unlocked and a calibrated PID with a minimum 10.2 eV lamp was used to measure the concentration of VOCs at the top of the well riser.
- Depth to water and the depth to the bottom of the well were measured to the nearest 0.01-ft using an electronic water level indicator or an interface probe. The water level indicator or the interface probe was cleaned between wells using decontamination procedures described in the *Groundwater Monitoring Work Plan* (ERM 2006).
- Adjustable-rate, peristaltic pumps were utilized for purging/sampling of each well. The dedicated tubing was slowly lowered into the well to a depth approximately 6-inches above the bottom of the well to prevent mobilization of any sediment.

- During purging the depth to water, pumping rates, turbidity, temperature, specific conductance, pH, oxygen reduction potential, and dissolved oxygen were measured and recorded every 5 minutes or as appropriate based on field conditions.
- Pumping rates were adjusted to minimize drawdown and/or to facilitate stabilization of field parameters as required.
- Purging ceased when the turbidity dropped below 50 Nephelometric Turbidity Units and/or field parameters have stabilized as follows for three consecutive readings:
 - ± 0.1 for pH;
 - Temperature ± 0.1 degree Celsius; and
 - ± 10 percent for specific conductance (conductivity).
- Before sampling, the flow-through cell was disconnected to collect groundwater samples before the flow-through cell. Each of the sample containers were filled by allowing the pump discharge to flow gently down the inside of the container with minimal turbulence and agitation.
- Sample bottles were labeled using waterproof pens. All samples were placed into a pre-chilled cooler for subsequent delivery to LSL.

The groundwater samples submitted to LSL were analyzed for BEX by USEPA Method 8260. In addition, during the “baseline” groundwater sampling event, all monitoring wells were analyzed for the following natural attenuation parameters to evaluate the performance of the PT:

- Alkalinity using SM 18 2320B;
- Ammonia using USEPA 350.2;
- Methane using GC FID;
- Nitrate using USEPA 300;
- Sulfate using USEPA 300; and
- Total hardness using USEPA 200.7.

All natural attenuation parameters listed above were analyzed at LSL, an approved environmental laboratory using USEPA-approved or standard methods. In addition, the samples were field-tested for ferrous iron using a Hach Model IR-18C ferrous iron test kit (1,10-phenanthroline iron reagent method). The results of ferrous iron analyses in the field were recorded in the field notebook and/or on appropriate sampling forms.

Laboratory data reports are presented in [Appendix C](#). Associated Quality Assurance/Quality Control (QA/QC) samples were collected in accordance with the project Quality Assurance Project Plan. QA/QC information is presented in [Appendix D](#) of this Final TM.

ERM conducted an enhanced natural attenuation PT southwest of the RamTech facility, west of along Fairway Drive, north and south Molloy Road to evaluate the effectiveness of enhanced natural attenuation within the BEX-plume. The goal of the PT was to decrease the concentrations of BEX in groundwater, and to prevent further migration of the BEX plume onto off-site property. The CaO₂ slurry was injected into the saturated zone within the BEX plume during the PT. The introduction of CaO₂ provides a controlled release of oxygen which permeates throughout the substrate enhancing microbial activity which biodegrade BEX compounds.

Twenty injection points were installed over a period of 4 days using direct-push technology in the locations depicted on [Figure 4](#). Each injection point was advanced to the bottom of the targeted injection zone within the predominately sand geologic unit (approximately 15 to 30 ft bgs), where BEX has historically been observed in groundwater. A maximum of 50 pounds of CaO₂ was injected at each location. Injection of the CaO₂ started on the northern most injection area on ANG property and move southward.

4.1.4 Borings Along Fairway Drive and Monitoring Well Installations

Due to the slow progress in obtaining access to GE Property, ERM discussed implementing an additional boring program just west of GE Property with the ANG on 29 July 2009. The drilling subcontractor filed a request through Dig Safely New York for subsurface utility clearance of member companies. ERM conducted a geo-physical survey with New York Leak Detection at each proposed boring location to verify that underground utilities were not present. ERM implemented the soil boring program characterizing and field screening continuous soil samples collected from boring locations GP-142 through GP-146 as shown

on [Figure 3](#). A groundwater sample was collected and analyzed for BEX from each boring location as outlined in [Section 4.1.2](#).

Soil boring locations were marked with temporary field markers until the location and elevation were surveyed by a New York-licensed surveyor. Surveying was conducted as soon as the intrusive work was completed. The planned horizontal and vertical accuracy of the survey is ± 0.1 ft and ± 0.01 ft, respectively. In addition, ERM kept a map of the project and updated during the DPI, and recorded each of the soil boring locations as they were completed including the following pertinent information:

- Designation of the borings;
- Location of the boring (using a measuring tape);
- Highest PID reading recorded at the boring and the depth below surface grade;
- Depth, date, and time each soil sample was collected;
- Depth of saturated soil;
- Depth of the contact with the sand geologic unit; and
- Visual or olfactory field observations.

Two new groundwater monitoring wells (MW-113 and MW-114) were installed during this Supplemental RI. The two new off-site wells were installed just south of the south central portion of the GE property line (MW-113) and just east of the east central portion of the GE Property line (MW-114). Based on previous SP-16 sampling results obtained during the February 2009 phase of this Supplemental RI, these wells should be considered sentinel wells. The two new monitoring well locations are presented on [Figure 3](#).

Each of the new monitoring wells was installed using direct-push and hollow-stem auger drilling techniques to drive 3.25-inch stainless steel casing into the sand unit. A 1.5-inch Schedule 40 polyvinyl chloride pre-pack well screen was placed down each casing until the 10-foot length of screen was set approximately 1-foot above the top of the sand unit. The 0.01-inch factory pre-slotted screens were threaded (flush-jointed) to Schedule 40 polyvinyl chloride casing to surface grade. The disposable stainless steel point was knocked out of the leading edge of the stainless steel casing and the casing was removed. A Morie #0 sand filter pack was placed on top of the pre-pack well screens to a depth of approximately

1-foot above the top of the well screen. A 2-foot thick seal of pre-hydrated bentonite chips was installed above each sand filter pack. Once the bentonite seal was in place, the remaining annular space was backfilled with cement-bentonite grout to near surface grade. Each well was fitted with a protective steel casing which was cemented in place. A locking expansion well cap was placed on each well.

Each of the newly installed monitoring wells was developed prior to being incorporated into the post PT sampling events and will be included in the future routine sampling events. The location and elevation of the wells were surveyed by a New York-licensed surveyor. The planned horizontal and vertical accuracy of the land survey is ± 0.1 ft and ± 0.01 ft, respectively. On 5 August 2009, the following monitoring wells were sampled: MW-19, MW-105, MW-106, MW-107, MW-111, MW-112, MW-113, and MW-114. The wells were sampled as described above in [Section 4.1.3](#).

Laboratory data reports are presented in [Appendix C](#). Associated QA/QC samples were collected in accordance with the project Quality Assurance Project Plan. QA/QC information has been completed and is presented in [Appendix D](#) of this revised Final TM.

4.1.5 Groundwater Sampling

A complete groundwater sampling event was conducted by ERM during the week of 5 October 2009. All existing monitoring wells and the two newly installed wells (total of 30 wells) were sampled as described above in [Section 4.1.3](#). All monitoring well locations are presented on [Figure 5](#).

Depth to groundwater was measured to the nearest 0.01-foot using an electronic water level indicator or an interface probe. The water level indicator and the interface probe were decontaminated between wells using decontamination procedure outlined in the Work Plan. A summary of groundwater elevations is presented in [Table 3](#). A static groundwater elevation contour map for October 2008 is also presented on [Figure 5](#).

All associated field data sheets are presented with the soil boring logs in [Appendix B](#). A summary of monitoring well analytical data is presented in [Table 4](#). All other parameters listed above to evaluate natural attenuation processes at the Site were performed at an approved environmental laboratory using USEPA-approved or standard methods.

4.1.6 Soil Vapor Survey

ERM performed a soil vapor survey on 5 and 6 October 2009 at four locations as shown on [Figure 3](#). A soil vapor sample was collected adjacent to the west and south exterior walls of the RamTech Building and, one location along RamTech's southern property line (northern boundary of GE) proximal to the building located on the GE Property. Soil vapor samples were collected from a depth consistent with a typical commercial building footer (approximately 3 to 4 ft bgs) or a minimum of 1 foot above groundwater. In addition, an ambient outdoor air sample was collected upwind during soil vapor sampling activities. The samples were used to evaluate the potential for vapor intrusion risks in the buildings.

The soil vapor samples were installed and collected as per Section 2.7.1 of the *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (New York State Department of Health [NYSDOH] 2006). Stainless steel rods equipped with a detachable stainless steel drive point were driven to the desired sampling depth. At the desired depth, the rods were retracted and the treaded drive point was detached to anchor the soil 6-inch vapor sampling implant (sampling screen) at the base of the borehole. Dedicated Teflon[®] tubing was attached to the soil vapor sampling implant. Implants were lowered into the borehole and attached to the detachable stainless steel anchor. The borehole was backfilled with glass beads to a minimum of 6 inches above the soil vapor sampling implant to establish a sampling zone of approximately 1-foot in length. The remainder of the annular space was filled with bentonite chips and immediately hydrated.

The soil vapor sampling implants were allowed to set for a minimum of 24-hours to allow the bentonite to hydrate prior to helium testing. Prior to collection of each soil vapor sample, the temporary soil vapor sampling implant and tubing was purged in accordance with NYSDOH final guidance (2006). One to three implant volumes was purged from each implant at a rate not exceeding 0.2 liters per minute. In addition, ERM placed an enclosed container over the soil vapor sampling implant creating a seal. The container was filled with a helium tracer gas and soil vapor from the sampling zone was monitored with a helium detector to determine if ambient air was being drawn into the sampling zone. The results confirmed a tight seal between the bentonite and soils at each soil vapor sampling location.

Soil vapor samples were collected in axial sorbent tubes using positive displacement pumping. Sorbent methodology uses USEPA Method TO-17 to analyze soil vapor samples for the presence of VOCs and for this application the analytes were limited to BEX. Method TO-17 is an approved analytical method in the *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (NYSDOH 2006).

The pumps ran for an approximate 2-hour sampling period and all QA/QC samples associated with the method were collected. The soil vapor samples were logged and transported under chain-of-custody to a certified laboratory.

4.2 Deviations from the Work Plan

The scope of work for the Supplemental RI assumed access to the GE Property. Since access to GE was never received during this investigation, the scope of work varied as described below:

- Proposed: Install up to 40 soil borings using direct-push technology on GE and surrounding down-gradient properties. Performed: Twenty-four soil borings were installed around the perimeter of the GE Property.
- Proposed: Collect up to 30 groundwater samples for laboratory analysis of BEX associated with the soil borings. Performed: Twenty-four groundwater samples were obtained and analyzed.
- Proposed: Install six to eight monitoring wells within the plume and in down-gradient areas. Performed: Two sentinel wells were installed, one on National Grid Property (MW-113) and one on PCI Property (MW-114).
- Development and a survey of the new monitoring wells were performed.
- Proposed: Collection of groundwater samples from the newly installed wells for laboratory analysis of BEX and natural attenuation parameters was anticipated. Performed: ERM performed a “baseline” assessment of six selected wells and followed that up with an additional round of sampling of the six selected wells plus the two additional wells. The planned complete round of groundwater sampling was also performed.

- As an additional investigative item, ERM performed a soil vapor evaluation adjacent to the RamTech Facility and along their southern boundary (Northern boundary of GE) to evaluate the potential for soil vapor intrusion issues for off-site buildings.

4.3 Field Screening Activity

ERM utilized a Mini RAE 2000 PID to conduct all field screening. ERM calibrated the PID at the start of each field day. Calibrations included a fresh air calibration/zero and calibration with 100 ppm isobutylene span gas. All field screening data was recorded directly on soil boring logs presented in [Appendix B](#).

4.4 Analytical Activity

ERM conducted the TM investigation between 25 February 2009 and 9 October 2009. During the ERM's investigation along the western, southern, and eastern property lines of GE, ERM collected 24 Geoprobe[®] SP-16 groundwater samples for BEX analysis. Three distinct groundwater sampling events were performed during this investigation resulting in 44-groundwater samples being obtained. QA/QC samples were obtained as required with the above referenced samples.

A summary of samples associated with the soil borings is presented in [Table 1](#). A summary of off-site DPI data - groundwater is presented in [Table 2](#). A summary of groundwater elevation data is presented in [Table 3](#), and a summary of monitoring well analytical data is presented in [Table 4](#). A static groundwater contour map based on October 2009 field data is presented on [Figure 5](#).

Laboratory reports are presented in [Appendix C](#). QA/QC information has been completed and is presented in [Appendix D](#) of this revised Final TM.

4.5 Investigation-Derived Waste Management

Section 4.5 of *Management of Investigation-Derived Wastes During Site Inspections* (USEPA 1991) states that non-hazardous soil and liquid investigation-derived waste (IDW) should be left on-site within the area of concern (AOC) unless other circumstances, such as a State Applicable or

Relevant and Appropriate Requirements or a high probability of community concerns, require off-site disposal. USEPA does not prohibit the disposal of non-hazardous groundwater and/or decontamination fluids in the AOC if they have been containerized and sampled. The following options for non-hazardous IDW management are cited from Section 4.5 of USEPA (1991):

- *Soil cuttings*: spread around well, put back into boring, or put in a pit within the AOC;
- *Groundwater*: pour onto ground next to well and allow infiltration;
- *Decontamination fluids*: pour onto ground from containers to allow infiltration; and
- *Decontaminated personal protective equipment and disposable sampling equipment*: double bag and deposit at the Facility, in a USEPA dumpster, or at a municipal landfill.

Non-hazardous IDW generated during the TM was managed in a manner consistent with the options listed above. Soil cuttings were spread around the ground surface adjacent to the particular boring location. Groundwater was containerized in 5-gallon buckets and upon completion of sampling; the containerized groundwater was spread on the ground surface adjacent to the particular well location. Used personal protective equipment and disposable sampling equipment was bagged after use and placed in a Base dumpster for subsequent disposal at a NYSDEC-permitted solid waste disposal facility.

SECTION 5.0

INVESTIGATION FINDINGS

5.1 Summary

The primary chemical-specific Applicable or Relevant and Appropriate Requirements for groundwater at the Site are the NYSDEC Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. These criteria are contained in the NYSDEC Division of Water *Technical and Operational Guidance Series Memorandum Number 1.1.1* (TOGS 1.1.1; NYSDEC 1998).

The NYSDEC criteria for the compounds present in groundwater analyzed during this TM are listed below. The values shown for BEX are ambient water quality standards.

- Benzene: 1 µg/L
- Ethylbenzene: 5 µg/L
- Xylene: 5 µg/L

The results of the Supplemental RI conducted to date indicate that BEX-affected groundwater extends across the BGC and RamTech properties further down-gradient towards the south-southeast (GE Property) but does not migrate off GE Property. ERM was able to establish the NYSDEC-requested well(s) down-gradient of the plume without obtaining access agreements with GE.

5.2 Field Findings

ERM performed all fieldwork associated with the Work Plan and as described above between 25 February 2009 and 9 October 2009. This section summarizes field results and findings from implementation of the Supplemental RI.

5.2.1 Direct-Push Investigation South and East of GE Property

A DPI utilizing USEPA's Triad Approach was conducted south and east of the GE Property that focused on delineating the extent of BEX-affected groundwater. A total of 19 borings were required to determine that the BEX-affected groundwater plume did not extend beyond the southern and eastern properties lines of GE. Each boring was advanced to depths between 19- to 25-ft bgs. The average depth of saturated soil in this area during the investigation was 2- to 5- ft bgs.

Unconsolidated geologic material at the Site consists predominantly of glacio-fluvial and glacio-lacustrine deposits underlain by glacial till. These geologic materials were transported, deposited, and re-worked during the Wisconsin glaciation (previous ice ages). Glacio-fluvial deposits are generally sandy relative to glacio-lacustrine deposits which are generally fine-grained (i.e., contain predominantly silt and clay). Glacial tills are characterized by a highly compressed, unsorted variation of particle sizes ranging from cobbles to silts, generally with high clay content. In terms of matrix porosity and permeability, the underlying glacial till is less transmissive than the overlying glacio-fluvial and glacio-lacustrine deposits which were encountered during this DPI.

This uppermost unit at the Site consists predominantly of light brown to grayish brown silty clay to silt with a trace amount of very fine- to fine-grained sand. Previous geotechnical analysis of the silt unit resulted in a saturated hydraulic conductivity of 3.64×10^{-7} centimeters per second. Beneath the silt unit is a sand-dominated unit consisting predominantly of brown to gray, fine- to medium-grained silty sand. Previous geotechnical analysis of the sand unit resulted in a saturated hydraulic conductivity of 4.09×10^{-4} centimeters per second.

PID results from soil screening in the unsaturated zone ranged from non-detect (ND) to 0.3 ppm. All PID results were noted on the borings logs which are presented in [Appendix B](#). All 19 of the borings were extended to the groundwater table to define the extent of groundwater contamination and to locate "clean" conditions at the southern and eastern GE property lines. As shown on [Table 2](#), BEX was not detected above the laboratory's reporting limit of each compound in all 19 of these referenced samples.

5.2.2 Pilot Test Phase

It was agreed between ANG and ERM that a “baseline” round of groundwater sampling in monitoring wells adjacent and down-gradient of the PT be sampled prior to performing the PT. The following monitoring wells were sampled: MW-19, MW-105, MW-106, MW-107, MW-111, and MW-112. The wells were sampled in general conformance with USEPA low-flow (minimal drawdown) well purging and sample collection techniques (USEPA 1996).

Analytical data are presented in [Appendix C](#) and summarized in [Table 4](#) along with the NYSDEC standards and guidance values for groundwater. BEX compounds were not detected in three of the six groundwater samples (MW-106, MW-107, and MW-112). The concentration of benzene (6.2 to 13 µg/L), ethylbenzene (17,120 and 250 µg/L) and xylene (20, 260, and 480 µg/L) in groundwater samples collected from MW-19, MW-105, and MW-112 exceeded the NYSDEC ambient groundwater quality standards of 1 µg/L, 5 µg/L, and 5 µg/L, respectively.

On 12 May 2009, initiation of the PT began. Approximately 20 injection points were installed using a Geoprobe® rig in the locations depicted on [Figure 4](#). Each injection point was advanced to the bottom of the targeted injection zone within the sand unit (approximately 15 to 25-ft bgs). Potable water was obtained from the 174th FW in a 300-gallon poly tank supplied by the drilling contractor. The solid CaO₂ and potable water mixed thoroughly into 20-gallon batches of a slurry like solution and were transferred into a portable pump skid. The slurry was slowly injected into the groundwater using a re-circulation pump. The CaO₂ slurry was injected in a “bottom-to-top” method in three 5-ft injection intervals, starting at the bottom of the targeted injection zone. The Geoprobe® was used to slowly retract drilling rods while the CaO₂ slurry was injection over the targeted zone. No significant problems were encountered during the injection process.

5.2.3 Borings Along Fairway Drive and Monitoring Well Installations

The installation of five additional borings was conducted west of the GE Property that focused on delineating the extent of BEX-affected groundwater. The five borings were required to determine that the BEX-affected groundwater plume did not extend beyond the western property lines of GE. Each boring was advanced to depths between 19- to 25-ft bgs. The average depth of saturated soil in this area during the investigation was 3- to 4-ft bgs.

PID results from soil screening in the unsaturated zone were ND. All PID results were noted on the borings logs which are presented in [Appendix B](#). All five of the borings were extended to the groundwater table to define the extent of groundwater contamination and to locate “clean” conditions along the western GE property lines. As shown in [Table 2](#), BEX was not detected above the laboratory’s reporting limit of each compound in all five of these referenced samples.

Two new groundwater monitoring wells (MW-113 and MW-114) were installed during this Supplemental RI. The two new off-site wells were installed just south of the south central portion of the GE property line (MW-113) and just east of the east central portion of the GE Property line (MW-114). Based on previous SP-16 sampling results obtained during the February 2009 phase of this Supplemental RI, these wells should be considered sentinel wells.

On 5 August 2009, the following monitoring wells were sampled: MW-19, MW-105, MW-106, MW-107, MW-111, MW-112, MW-113, and MW-114. The wells were sampled in general conformance with USEPA low-flow (minimal drawdown) well purging and sample collection techniques (USEPA 1996). Analytical data are presented in [Appendix C](#) and summarized in [Table 4](#) along with the NYSDEC standards and guidance values for groundwater. BEX compounds were not detected in five of the eight groundwater samples (MW-106, MW-107, MW-112, MW-113, and MW-114). The concentration of benzene (6.0, 3.3 and 6.9 µg/L), ethylbenzene (410 and 300 µg/L) and xylene (760 and 170 µg/L) in groundwater samples collected from MW-19, MW-105, and MW-112 exceeded the NYSDEC ambient groundwater quality standards of 1 µg/L, 5 µg/L, and 5 µg/L, respectively. Review of this data indicates that the injection of CaO₂ slurry, in general, enhanced the natural attenuation process.

5.2.4 Groundwater Sampling

A complete groundwater sampling event was conducted by ERM during the week of 5 October 2009. All 28 existing monitoring wells and the two newly installed wells were sampled as described above in [Section 4.1.3](#). All monitoring well locations are presented on [Figure 5](#).

Laboratory data associated with groundwater sampling are presented in [Table 4](#). Analytical laboratory reports are presented in [Appendix C](#). The groundwater analysis indicated BEX concentrations below laboratory method reporting limits in 20 of the 30 monitoring wells. Concentrations

of BEX above Standards, Criteria, and Guidance (SCG) were present in MW-2, MW-11, MW-14, MW-15, MW-19, MW-22, MW-101, MW-103, MW-105, and MW-112. Total BEX concentrations are presented on [Figure 6](#).

Benzene concentrations in these ten wells ranged from ND to 49 µg/L. [Figure 7](#) shows the lateral extent of benzene in groundwater in October 2009 using all 30 MW sampling locations and relative to the NYSDEC ambient groundwater quality standard of 1 µg/L (NYSDEC 1998). The highest concentration of benzene was found in the area immediately north of Molloy Road on the ANG property.

[Figure 8](#) illustrates the distribution of dissolved ethylbenzene in October 2009 using all the 30 MW locations and relative to the NYSDEC ambient groundwater quality standard of 5 µg/L. Ethylbenzene concentrations in these ten wells ranged from ND to 380 µg/L. Ethylbenzene concentrations were highest in the vicinity of well MW-19 north of Molloy Road on the ANG property.

[Figure 9](#) shows the distribution of dissolved xylenes in October 2009 using all 30 MW sampling locations and relative to the NYSDEC ambient groundwater quality standard of 5 µg/L. Xylene concentrations in these ten wells ranged from ND to 420 µg/L. Xylene concentrations were highest in the vicinity of well MW-19 north of Molloy Road on the ANG property.

Detailed review of the natural attenuation parameters has been completed by ERM. Results of this review and associated recommendations have been detailed in Appendix A of the Draft Final FFS submitted to the ANG and the NYSDEC on 7 December 2009.

Based on the additional investigation previously described in this TM, the extent of BTEX-affected groundwater has been delineated on the Hancock ANGB property, BGC property, and on the RamTech property with the plume dissipating within the boundaries of the GE Property.

5.2.5 Soil Vapor Survey

New York State does not currently have any SCG values for concentrations of VOC in subsurface vapors. Additionally, there are no current databases available with background levels of VOC in soil vapor. In the absence of this information, soil vapor sampling results are reviewed “as a whole,” in conjunction with the results of other environmental sampling and the site. To put some perspective on the

data, the NYDOH and NYSDEC often compare the soil vapor results to the NYSDOH's background database that was used to evaluate outdoor air data (NYSDOH 2006).

The results of the soil vapor evaluation conducted on RamTech's property are summarized in the table below. The study was conducted to characterize the nature and potential extent of subsurface vapor contamination on the property. The results of the soil vapor evaluation are compared to a statistical evaluation of background concentrations of VOC in outdoor air which are summarized in the *Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes* (NYSDOH 2003).

Identification	Benzene	Ethylbenzene	m,p - Xylene	o- Xylene
SV-06	2.14	0.97	0.90	0.57
SV-07	3.43	3.12	4.19	2.92
SV-08	12.1	1.08	1.14	0.61
Ambient	<0.79	<0.39	<0.39	<0.39
Indoor 90 th	15	7.4	12	7.6
Outdoor 90 th	4.3	1.1	1.4	1.7

(Concentrations in µg/cubic meter)

The bolded concentrations in the tabular summary exceed the background outdoor air concentrations of 90 percent of samples collected in the NYSDOH study. According the NYSDOH, soil vapor data alone typically can not be relied alone to rule out the potential for vapor intrusion in a buildings. Based on the evaluation of soil vapor and groundwater data collected in the vicinity of the RamTech building, ERM recommends that indoor air evaluation should be performed. Based on ERM's current knowledge on the construction of the RamTech facility, ERM recommends collecting two sets of indoor air samples (one sub-slab soil gas and one indoor air sample from each location) and one ambient outdoor air sample. The data collected during the indoor air evaluation will be used to assess the current Site conditions and to address potential exposure risk.

SECTION 6.0

CONCLUSIONS

The Supplemental RI was performed to address several data gaps that exist regarding off-site and down gradient BTEX-affected soil and groundwater relating to Site 15. A significant amount of additional data was obtained during implementation of the Supplemental RI. The following technical conclusions are derived from implementation of this Supplemental RI Work Plan:

1. Dissolved-phase BTEX in groundwater at concentrations above applicable SCGs has migrated completely across portions of the BGC and RamTech properties to properties further down gradient. This additional environmental investigation determined that the end of the plume is somewhere on GE Property as indicated by BEX sampling on the west, south, and east sides of the GE Property.
2. Natural attenuation of BTEX in groundwater is occurring in Site 15 groundwater. However, the rate of natural attenuation is not sufficient to prevent additional migration of BTEX in groundwater as evidenced by fluctuations of the dissolved-phase BTEX plume.
3. The PT indicated the injection of CaO_2 was effective and natural attenuation was enhanced with chemical injection.
4. Evaluation of soil vapor concentrations in the vicinity of the RamTech building indicates that indoor air sampling should be performed.

SECTION 7.0

RECOMMENDATIONS

ERM recommends the following actions based on the results of the Supplemental RI to facilitate remediation of Site 15, including the off-site portion of the plume.

- A formal Addendum to the February 2002 FFS Report should be prepared incorporating the significant amount of additional data obtained during the recent investigations and the proposed IRAs. A Draft FFS was presented to ANG in September 2008 and the Draft Final revision is being developed in conjunction with this TM.
- The preparation of a Proposed Plan and Record of Decision should be conducted upon ANG and New York State Department of Environmental Conservation (NYSDEC) approval of the upcoming Draft Final and Final Focused Feasibility Study Reports
- Based on currently available information, ERM recommends conducting an indoor air evaluation at the RamTech Engineering Building.
- Continue monitoring natural attenuation at the monitoring wells on Site 15 and down gradient through appropriate sampling, laboratory analyses, and associated reporting prior to implementation of the final approved remedial alternative.

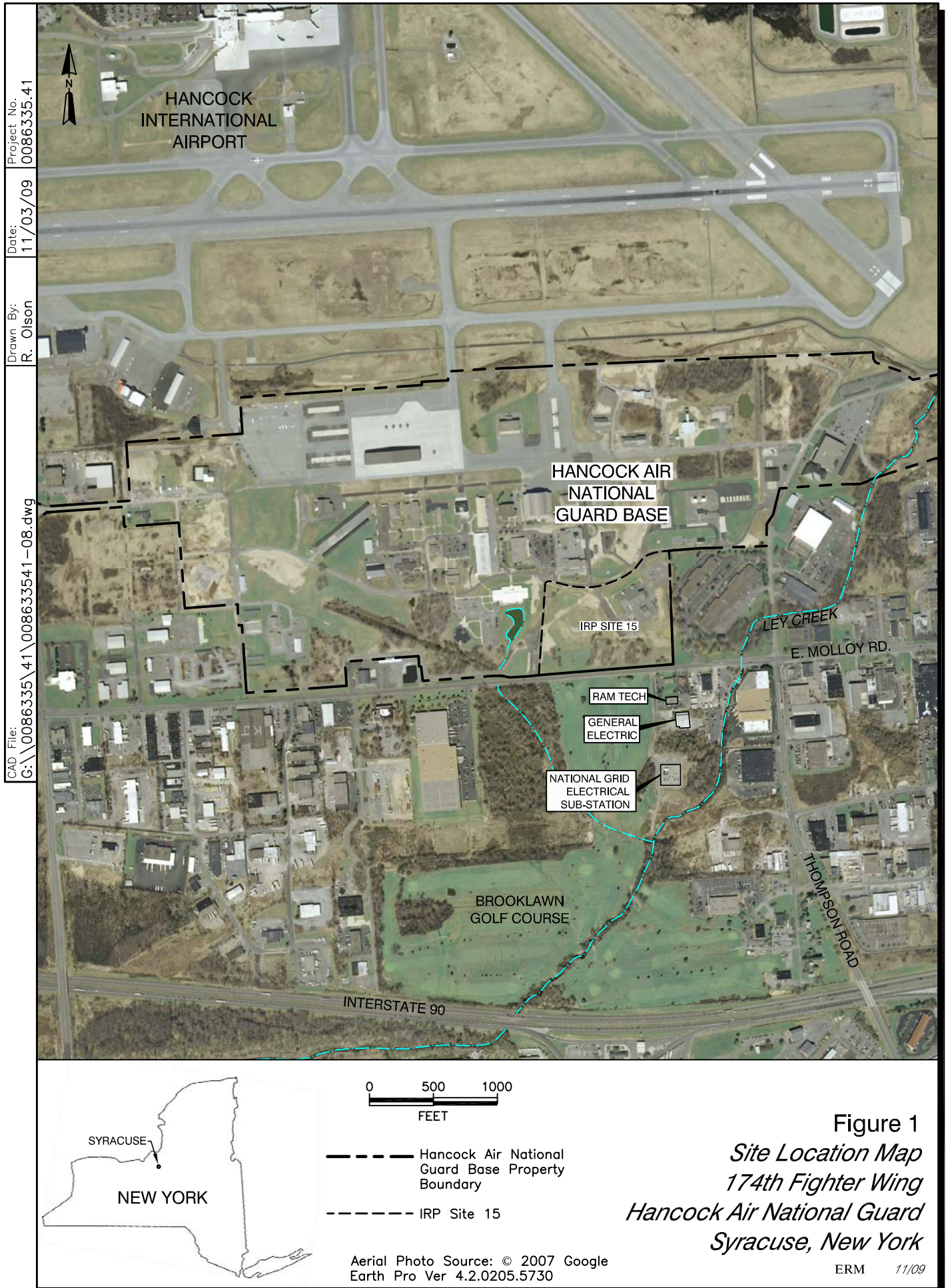
SECTION 8.0

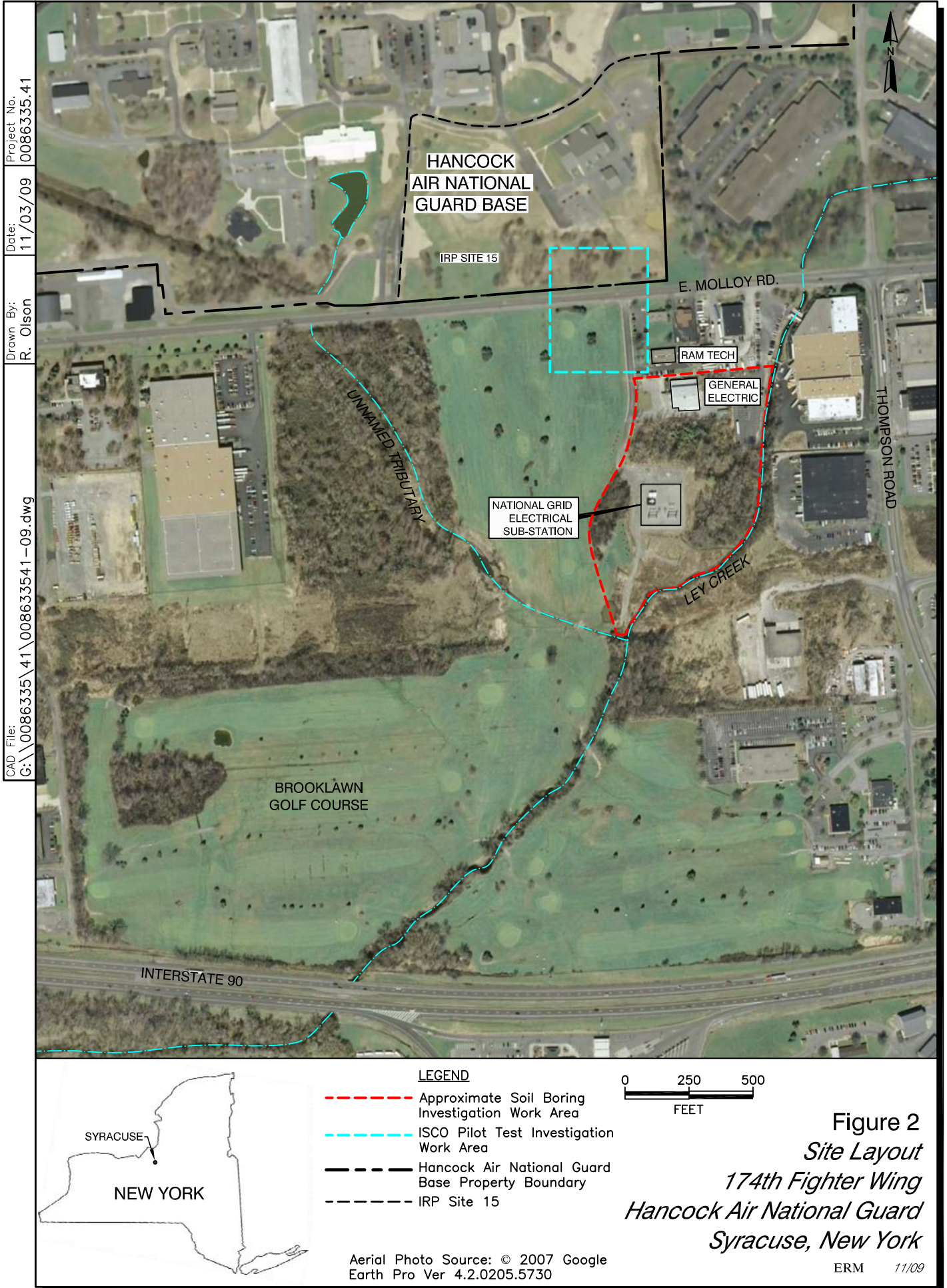
REFERENCES

- ANG, 2005. *Environmental Restoration Program Investigation Guidance*
- ERM, 2009, *Site 15 Interim Remedial Action – Draft Final Focused Feasibility Study*, 174th Fighter Wing - New York Air National Guard- Hancock Air National Guard Base – Syracuse, New York – ERM, Dewitt, New York, December 2009.
- ERM, 2006, *Site 15 Interim Remedial Action – Groundwater Monitoring Work Plan*, 174th Fighter Wing - New York Air National Guard- Hancock Air National Guard Base – Syracuse, New York – ERM, Dewitt, New York, June 2006.
- NYSDEC, 1998. *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*. NYSDEC Division of Water Technical and Operational Guidance Series Memorandum Number 1.1.1., June 1998 (latest amendment April 2000).
- NYSDEC, 2002. *Draft DER-10: Technical Guidance for Site Investigation and Remediation*. NYSDEC Division of Environmental Remediation, Albany, December 2002, 136 pp.
- NYSDOH, 2003, *Volatile Organic Chemicals in Air of Fuel Oil Heated Homes*.
- NYSDOH, 2006. *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (October 2006).
- Parsons, 2004. *Remedial Action Plan For Hancock Air National Guard Site 15*. Parsons Engineering Science, Inc., Liverpool, New York, January 2004.
- USEPA, 1991. *Management of Investigation-Derived Wastes during Site Inspections*. United States Environmental Protection Agency, Office of Emergency and Remedial Response Directive Number 9345.3-02, EPA/540/G-91/009, Washington, D.C., 88 pp.
- USEPA, 1996. *Low-flow (minimal drawdown) groundwater sampling procedures*. United States Environmental Protection Agency Groundwater Issue, Office of Research and Development and Office of Solid Waste and Emergency Response, EPA/540/S-95/504, 12 pp.

FIGURES









- LEGEND**

 - Boring Location (Spring 2009)
 - Boring Location (Summer 2009)
 - ⊕ Monitoring Well Location (Summer 2009)
 - ⚡ Soil Vapor Well Location (Summer 2009)
- Approximate GE Property Line
 - Onondaga County Utility Easement
 - Creek/Swale

Figure 3
2009 Investigation Boring Locations
174th Fighter Wing
Hancock Air National Guard
Syracuse, New York

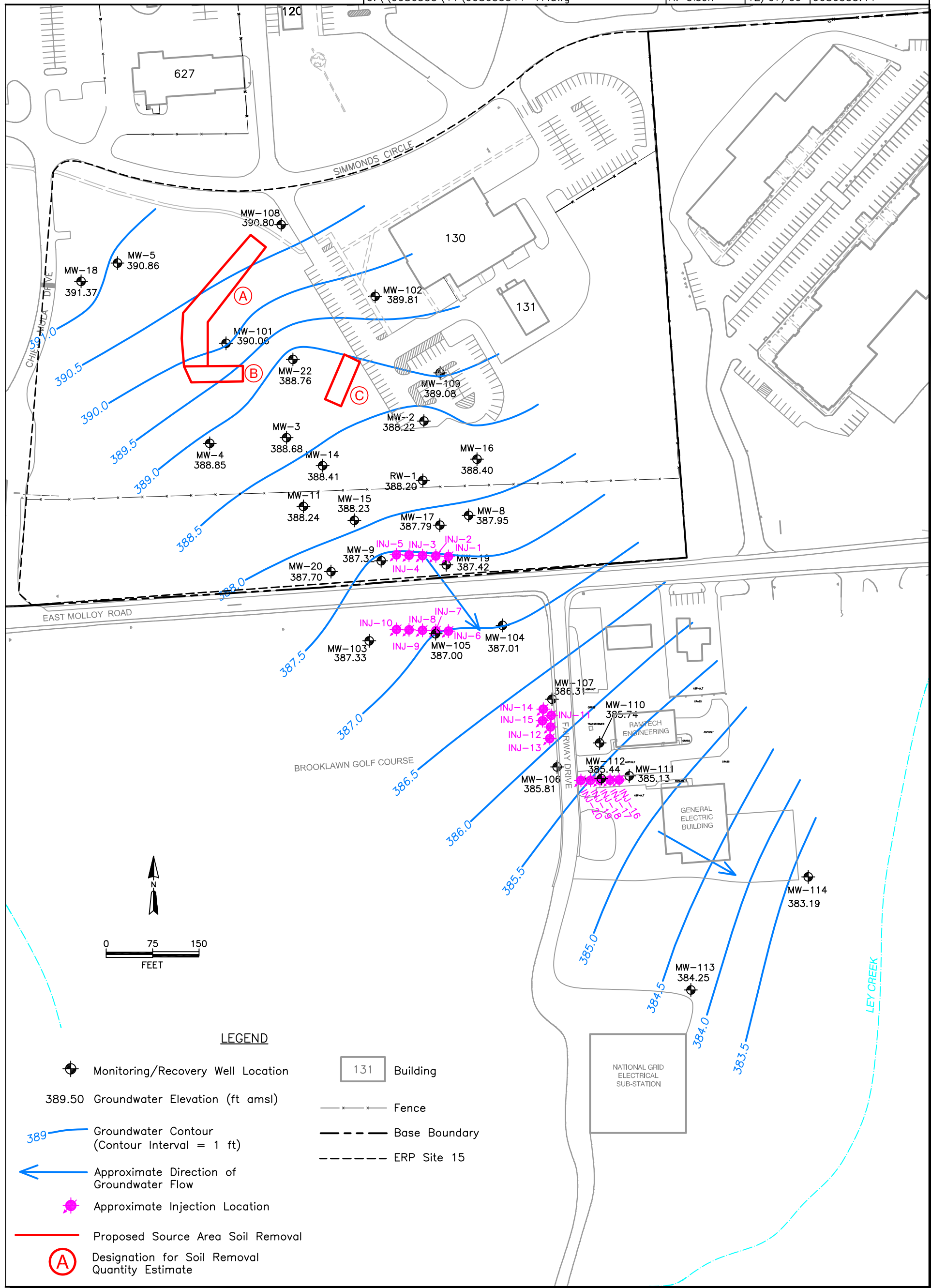


Figure 4
Pilot Test Activity Locations
174th Fighter Wing
Hancock Air National Guard
Syracuse, New York

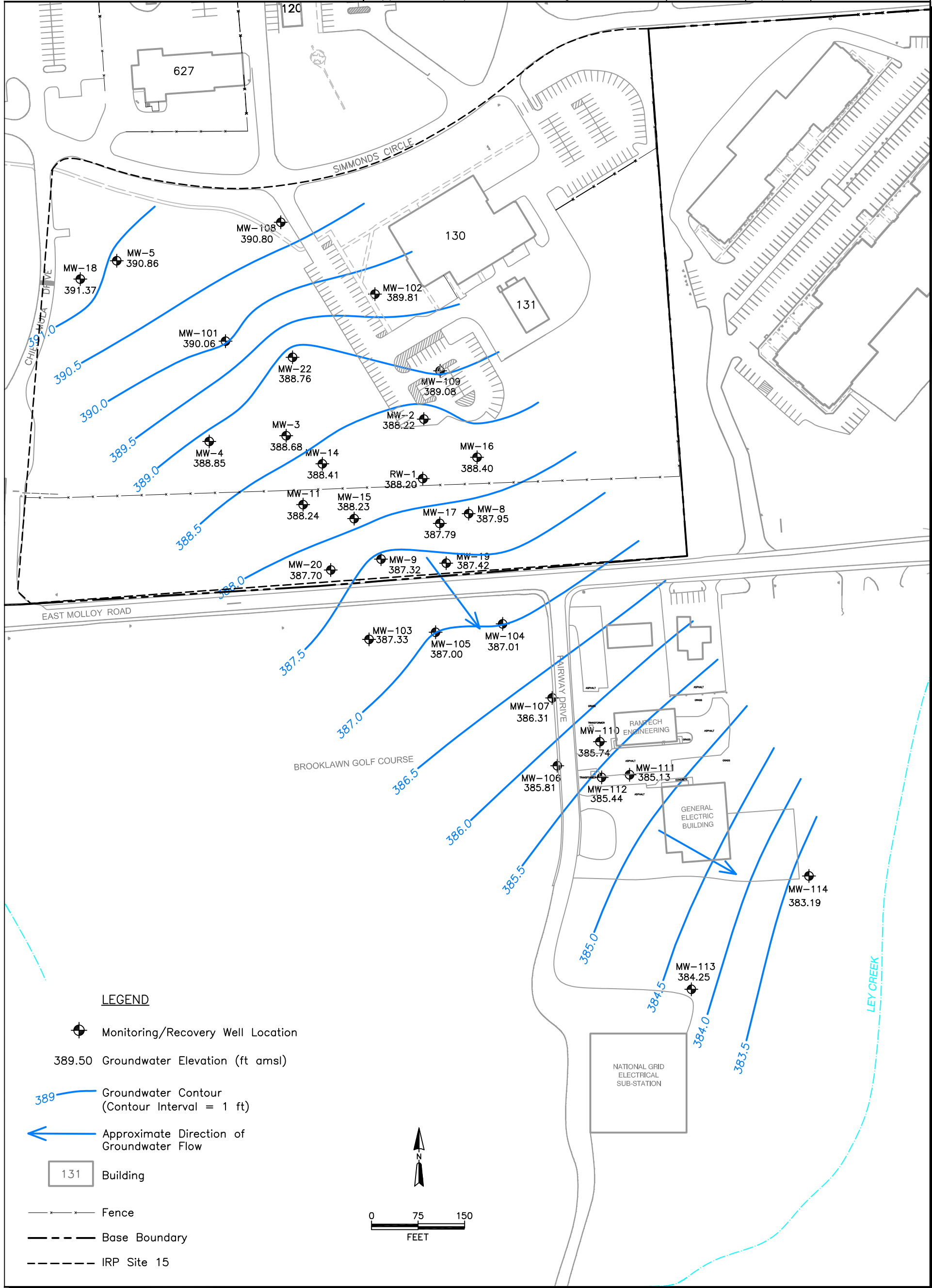


Figure 5
Static Groundwater Contour Map
6 October 2009
174th Fighter Wing
Hancock Air National Guard
Syracuse, New York

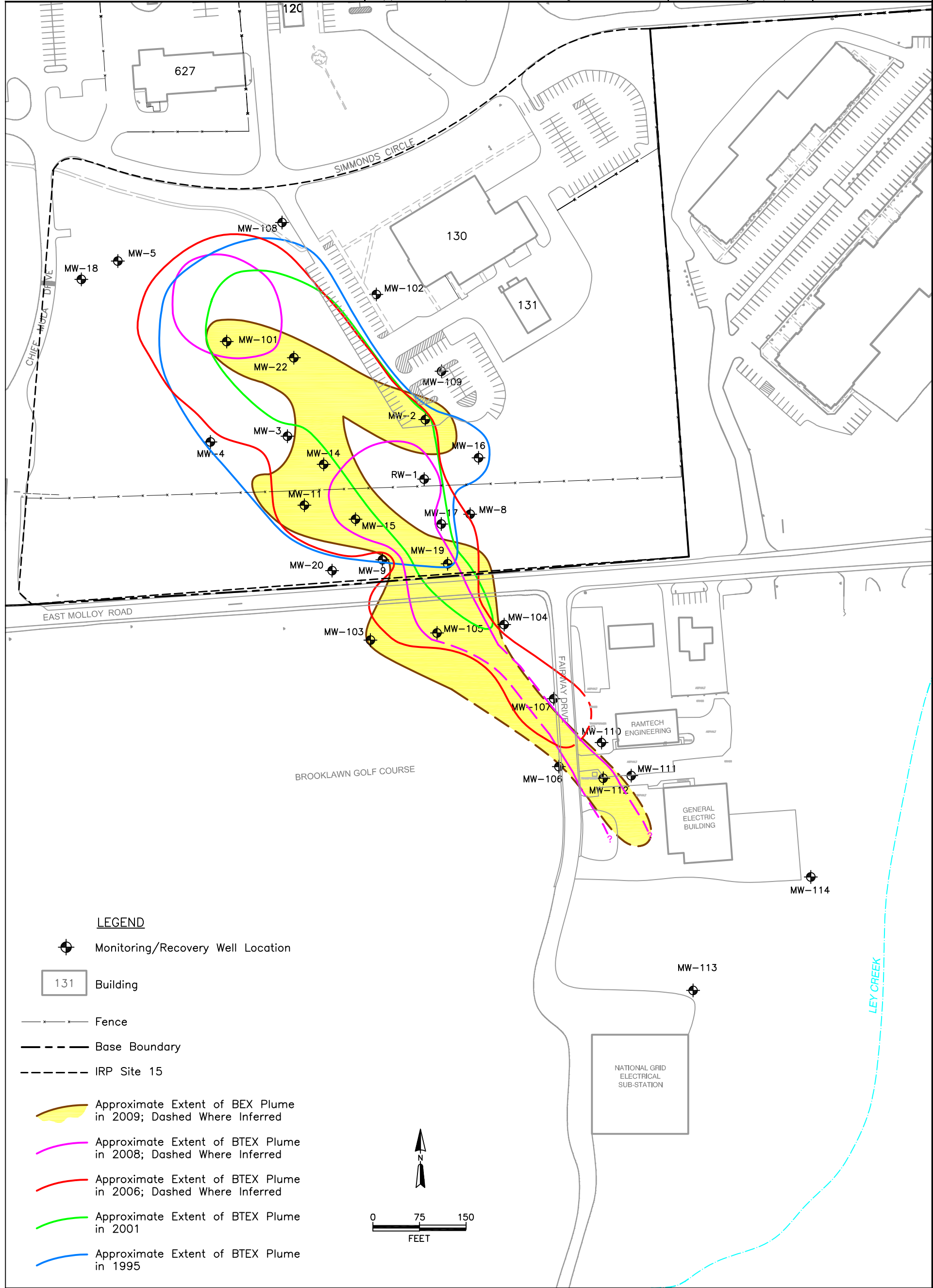


Figure 6
*Estimated BTEX Extent
1995 to 2009
174th Fighter Wing
Hancock Air National Guard
Syracuse, New York*

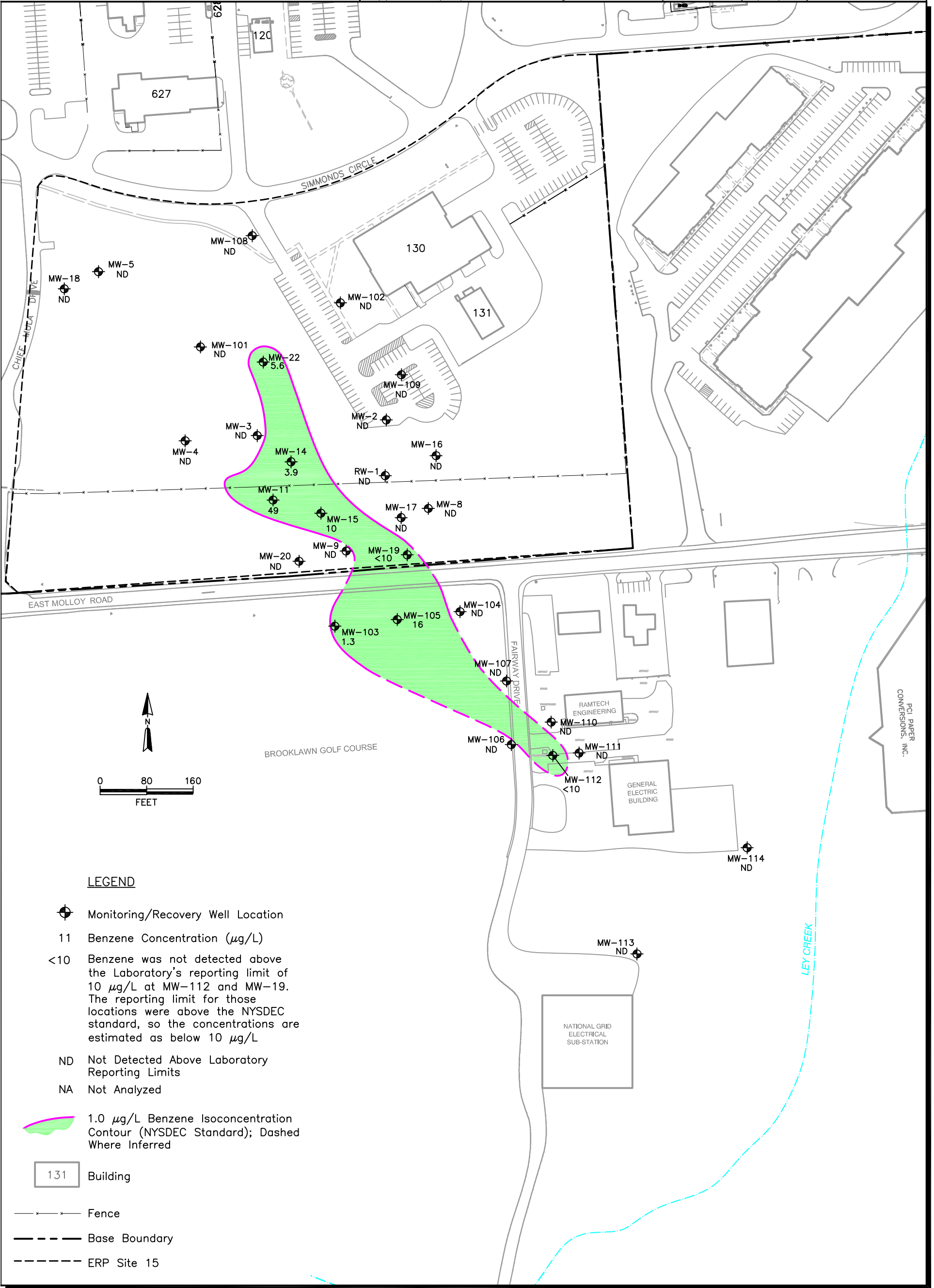


Figure 7
Groundwater Isoconcentration Map, Benzene
October 2009
174th Fighter Wing
Hancock Air National Guard
Syracuse, New York

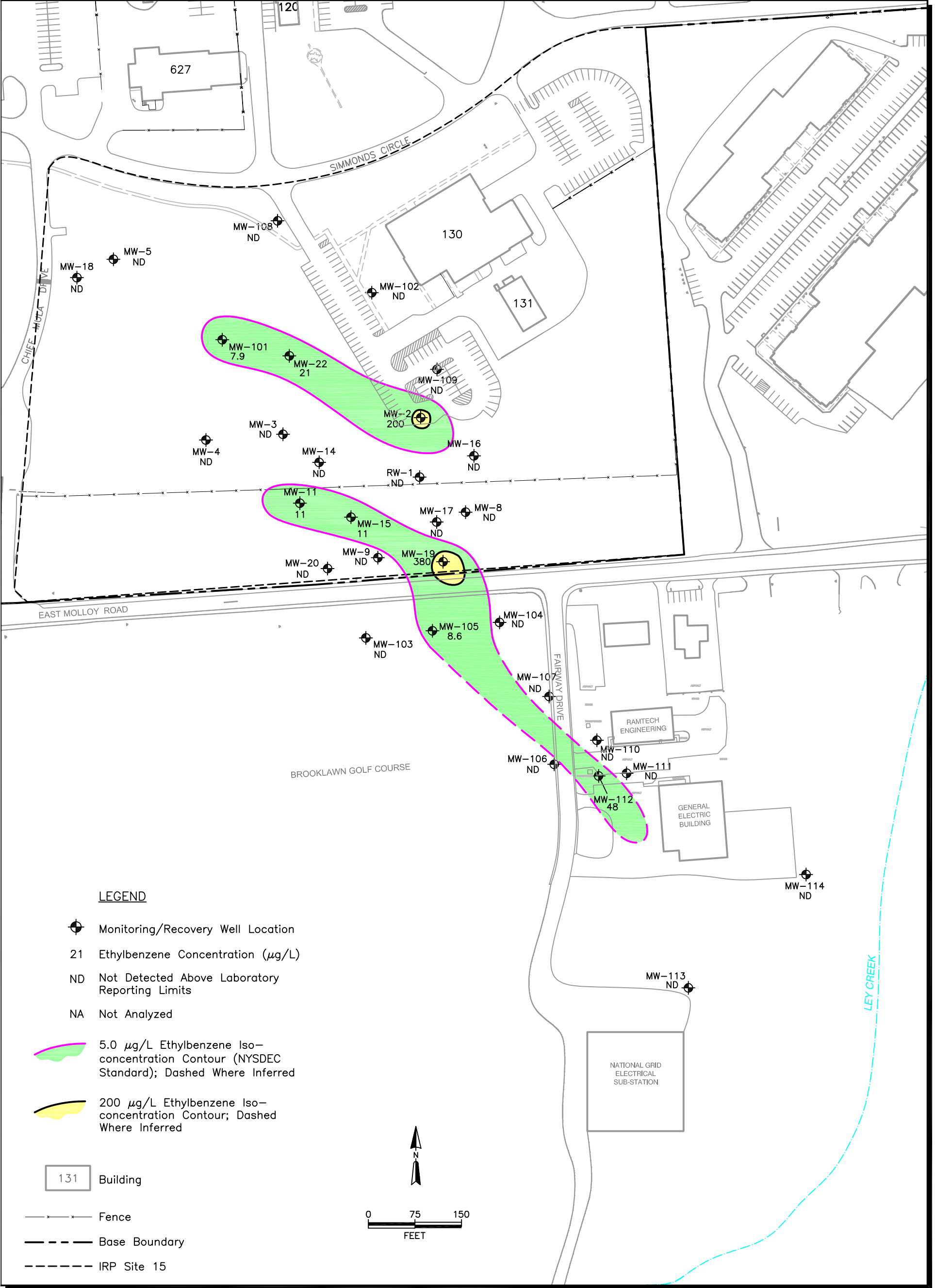


Figure 8
Groundwater Isoconcentration Map, Ethylbenzene
October 2009
174th Fighter Wing
Hancock Air National Guard
Syracuse, New York

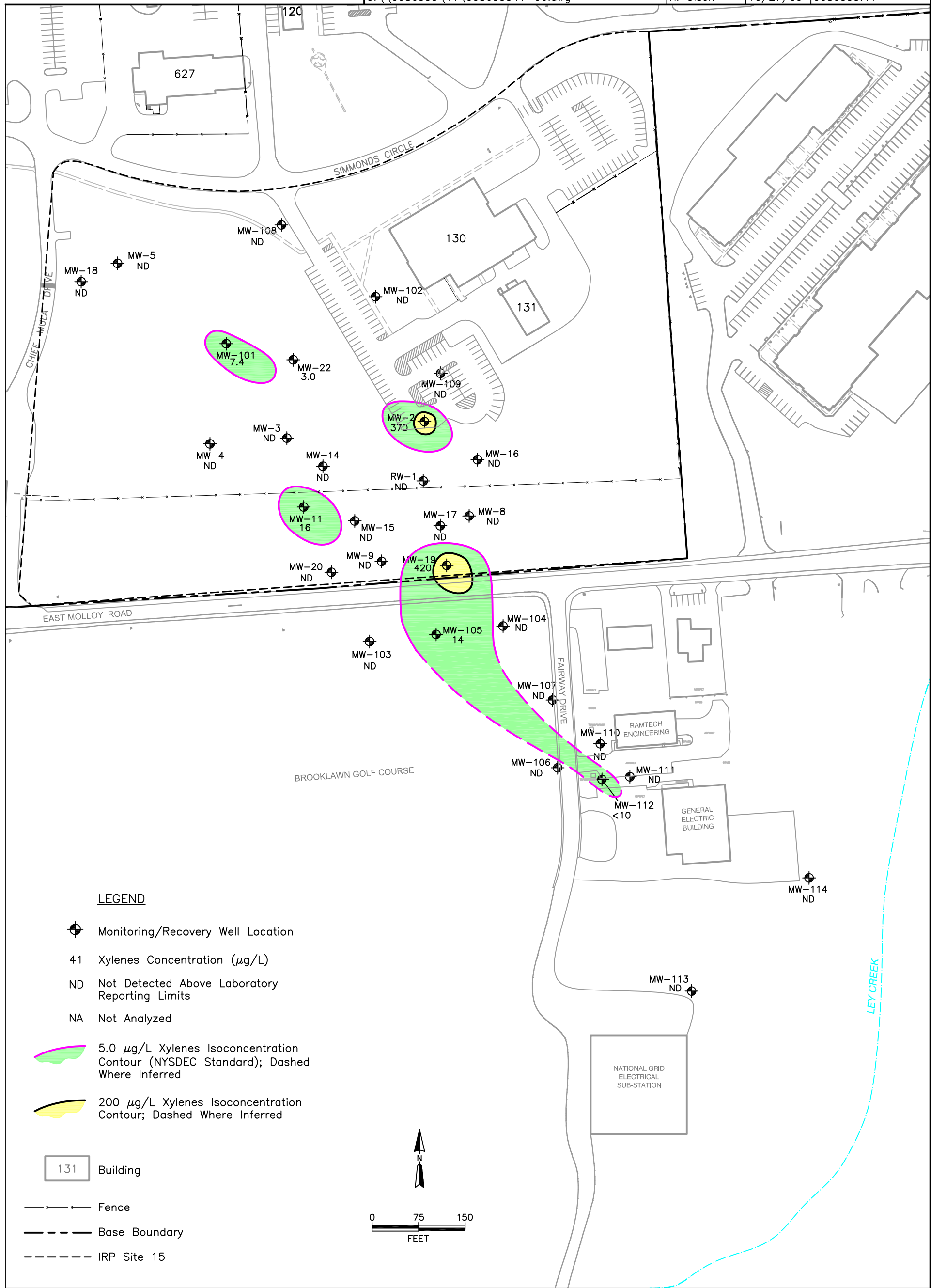


Figure 9
Groundwater Isoconcentration Map, Xylenes
October 2009
174th Fighter Wing
Hancock Air National Guard
Syracuse, New York

TABLES



TABLE 1

SUMMARY OF SAMPLES
HANCOCK AIR NATIONAL GUARD BASE- SYRACUSE, NEW YORK
NYSDEC SITE NUMBER 734054
ERM PROJECT NUMBER 0086335

Location ID	Media	Analysis	Sample Date	Sample Time
ANG-GP-123	Ground Water	BEX	25-Feb-09	11:15
ANG-GP-124	Ground Water	BEX	25-Feb-09	12:30
ANG-GP-125	Ground Water	BEX	25-Feb-09	14:05
ANG-GP-126	Ground Water	BEX	25-Feb-09	15:05
ANG-EB	Lab Water	BEX, QA/QC	25-Feb-09	11:30
ANG-GP-127	Ground Water	BEX	26-Feb-09	9:25
ANG-GP-128	Ground Water	BEX	26-Feb-09	11:10
ANG-GP-129	Ground Water	BEX	26-Feb-09	12:40
ANG-GP-130	Ground Water	BEX	26-Feb-09	13:50
ANG-GP-131	Ground Water	BEX	26-Feb-09	17:10
ANG-GP-132	Ground Water	BEX	26-Feb-09	16:10
ANG-GP-133	Ground Water	BEX	27-Feb-09	10:45
ANG-GP-134	Ground Water	BEX	27-Feb-09	9:45
ANG-GP-134 MS	Ground Water	BEX, QA/QC	27-Feb-09	9:45
ANG-GP-134 MSD	Ground Water	BEX, QA/QC	27-Feb-09	9:45
ANG-GP-135	Ground Water	BEX	27-Feb-09	8:40
ANG-GP-136	Ground Water	BEX	27-Feb-09	12:55
ANG-GP-137	Ground Water	BEX	27-Feb-09	13:50
ANG-GP-138	Ground Water	BEX	27-Feb-09	14:35
ANG-GP- Dupe	Ground Water	BEX, QA/QC	27-Feb-09	---
ANG-GP-139	Ground Water	BEX	3-Mar-09	11:45
ANG-GP-140	Ground Water	BEX	3-Mar-09	1:12
ANG-GP-141	Ground Water	BEX	3-Mar-09	15:20
ANG-GP-142	Ground Water	BEX	29-Jul-09	12:00
ANG-GP-143	Ground Water	BEX	29-Jul-09	13:10
ANG-GP-143 MS	Ground Water	BEX, QA/QC	29-Jul-09	13:10
ANG-GP-143 MSD	Ground Water	BEX, QA/QC	29-Jul-09	13:10
ANG-GP-144	Ground Water	BEX	29-Jul-09	14:40
ANG-GP-145	Ground Water	BEX	29-Jul-09	15:45
ANG- GP- DUPE	Ground Water	BEX, QA/QC	29-Jul-09	---
ANG-GP-146	Ground Water	BEX	30-Jul-09	10:20
ANG-Trip Blank	Lab Water	BEX, QA/QC	30-Jul-09	---

NOTES:

--- - Not Applicable

BEX- benzene, ethylbenzene and xylenes by USEPA Method 8260 for groundwater and EPA TO-17 for soil gas

QA/QC- quality assurance and quality control samples as specified in the QAPP.

MNA- Select parameters to assist in the evaluation of the reductive attenuation of BTEX

Lab Water- deionized or organic free water provided by the laboratory

TABLE 1

SUMMARY OF SAMPLES
HANCOCK AIR NATIONAL GUARD BASE- SYRACUSE, NEW YORK
NYSDEC SITE NUMBER 734054
ERM PROJECT NUMBER 0086335

Location ID	Media	Analysis	Sample Date	Sample Time
ANG- MW-19 (04/09)	Ground Water	BEX, MNA	13-Apr-09	15:20
ANG- MW-105 (04/09)	Ground Water	BEX, MNA	13-Apr-09	12:05
ANG- MW-105 (04/09) MS	Ground Water	BEX, MNA, QA/QC	13-Apr-09	12:05
ANG- MW-105 (04/09) MSD	Ground Water	BEX, MNA, QA/QC	13-Apr-09	12:05
ANG- MW-106 (04/09)	Ground Water	BEX, MNA	13-Apr-09	16:40
ANG- MW-107 (04/09)	Ground Water	BEX, MNA	13-Apr-09	15:40
ANG- MW-111 (04/09)	Ground Water	BEX, MNA	13-Apr-09	11:15
ANG- MW-112 (04/09)	Ground Water	BEX, MNA	13-Apr-09	12:37
ANG- DUP (04/09)	Ground Water	BEX, MNA	13-Apr-09	12:37
ANG- EB (04/09)	Lab Water	BEX, MNA, QA/QC	13-Apr-09	11:20
ANG- MW-19 (04/09)	Ground Water	BEX, MNA	5-Aug-09	14:15
ANG- MW-105 (04/09)	Ground Water	BEX, MNA	5-Aug-09	14:15
ANG- MW-106 (04/09)	Ground Water	BEX, MNA	5-Aug-09	11:45
ANG- MW-107 (04/09)	Ground Water	BEX, MNA	5-Aug-09	15:30
ANG- MW-111 (04/09)	Ground Water	BEX, MNA	5-Aug-09	10:45
ANG- MW-111 (04/09) MS	Ground Water	BEX, MNA, QA/QC	5-Aug-09	10:45
ANG- MW-111 (04/09) MSD	Ground Water	BEX, MNA, QA/QC	5-Aug-09	10:45
ANG- MW-112 (04/09)	Ground Water	BEX, MNA	5-Aug-09	10:35
ANG- DUP (04/09)	Ground Water	BEX, MNA	5-Aug-09	13:00
ANG- MW-113 (04/09)	Ground Water	BEX, MNA	5-Aug-09	17:05
ANG- MW-114 (04/09)	Ground Water	BEX, MNA	5-Aug-09	16:00
ANG- EB (04/09)	Lab Water	BEX, MNA, QA/QC	5-Aug-09	17:25
ANG- MW-103 (10/09)	Ground Water	BEX, MNA	6-Oct-09	15:45
ANG- MW-104 (10/09)	Ground Water	BEX, MNA	6-Oct-09	16:30
ANG- MW-105 (10/09)	Ground Water	BEX, MNA	6-Oct-09	15:25
ANG- MW-106 (10/09)	Ground Water	BEX, MNA	6-Oct-09	16:45
ANG- MW-107 (10/09)	Ground Water	BEX, MNA	6-Oct-09	15:45
ANG- MW-110 (10/09)	Ground Water	BEX, MNA	6-Oct-09	14:15
ANG- MW-111 (10/09)	Ground Water	BEX, MNA	6-Oct-09	12:05
ANG- MW-112 (10/09)	Ground Water	BEX, MNA	6-Oct-09	10:40
ANG- MW-113 (10/09)	Ground Water	BEX, MNA	6-Oct-09	13:48

NOTES:

--- - Not Applicable

BEX- benzene, ethylbenzene and xylenes by USEPA Method 8260 for groundwater and EPA TO-17 for soil gas

QA/QC- quality assurance and quality control samples as specified in the QAPP.

MNA- Select parameters to assist in the evaluation of the reductive attenuation of BTEX

Lab Water- deionized or organic free water provided by the laboratory

TABLE 1

SUMMARY OF SAMPLES
HANCOCK AIR NATIONAL GUARD BASE- SYRACUSE, NEW YORK
NYSDEC SITE NUMBER 734054
ERM PROJECT NUMBER 0086335

Location ID	Media	Analysis	Sample Date	Sample Time
ANG- MW-114 (10/09)	Ground Water	BEX, MNA	6-Oct-09	17:00
ANG- MW-114 (04/09) MS	Ground Water	BEX, MNA, QA/QC	6-Oct-09	17:00
ANG- MW-114 (04/09) MSD	Ground Water	BEX, MNA, QA/QC	6-Oct-09	17:00
ANG- EB (10/09)	Lab Water	BEX, MNA, QA/QC	6-Oct-09	17:20
RAM- SV-06	Soil Gas	BEX	6-Oct-09	11:40
RAM- SV-07	Soil Gas	BEX	6-Oct-09	11:50
RAM- SV-08	Soil Gas	BEX	6-Oct-09	11:55
RAM- SV-Ambient	Soil Gas	BEX	6-Oct-09	12:00
ANG- MW-20 (10/09)	Ground Water	BEX, MNA	7-Oct-09	8:40
ANG- MW-9 (10/09)	Ground Water	BEX, MNA	7-Oct-09	8:45
ANG- MW-2 (10/09)	Ground Water	BEX, MNA	7-Oct-09	9:35
ANG- MW-101 (10/09)	Ground Water	BEX, MNA	7-Oct-09	9:55
ANG- MW-19 (10/09)	Ground Water	BEX, MNA	7-Oct-09	10:15
ANG- DUP-2 (10/09)	Ground Water	BEX, MNA	7-Oct-09	10:15
ANG- MW-22 (10/09)	Ground Water	BEX, MNA	7-Oct-09	10:40
ANG- MW-22 (10/09)	Ground Water	BEX, MNA	7-Oct-09	10:55
ANG- MW-108 (10/09)	Ground Water	BEX, MNA	7-Oct-09	14:05
ANG- MW-102 (10/09)	Ground Water	BEX, MNA	7-Oct-09	14:20
ANG- EB (10/09)	Lab Water	BEX, MNA, QA/QC	7-Oct-09	14:37
ANG- MW-105 (10/09)	Ground Water	BEX, MNA	7-Oct-09	15:10
ANG- MW-18 (10/09)	Ground Water	BEX, MNA	7-Oct-09	15:35
ANG- MW-3 (10/09)	Ground Water	BEX, MNA	7-Oct-09	16:30
ANG- MW-4 (10/09)	Ground Water	BEX, MNA	7-Oct-09	16:35
ANG- RW-1 (10/09)	Ground Water	BEX, MNA	8-Oct-09	9:25
ANG- MW-14 (10/09)	Ground Water	BEX, MNA	8-Oct-09	9:55
ANG- MW-16 (10/09)	Ground Water	BEX, MNA	8-Oct-09	11:10
ANG- MW-15 (10/09)	Ground Water	BEX, MNA	8-Oct-09	12:25
ANG- MW-15 (10/09) MS	Ground Water	BEX, MNA, QA/QC	8-Oct-09	12:25
ANG- MW-15 (10/09) MSD	Ground Water	BEX, MNA, QA/QC	8-Oct-09	12:25
ANG- MW-17 (10/09)	Ground Water	BEX, MNA	8-Oct-09	14:15
ANG- MW-8 (04/09)	Ground Water	BEX, MNA	8-Oct-09	14:25

NOTES:

--- - Not Applicable

BEX- benzene, ethylbenzene and xylenes by USEPA Method 8260 for groundwater and EPA TO-17 for soil gas

QA/QC- quality assurance and quality control samples as specified in the QAPP.

MNA- Select parameters to assist in the evaluation of the reductive attenuation of BTEX

Lab Water- deionized or organic free water provided by the laboratory

Final

TABLE 2
SUMMARY OF DIRECT PUSH INVESTIGATION DATA- GROUNDWATER
SITE 15- 174th FIGHTER WING AIR NATIONAL GUARD
HANCOCK FIELD, SYRACUSE, NY
NYSDEC SITE NUMBER 734054
ERM PROJECT NUMBER 0086335

WELL ID Sample Date	GP-123 2/25/2009	GP-124 2/25/2009	GP-125 2/25/2009	GP-126 2/25/2009	GP-127 2/26/2009	GP-128 2/26/2009	GP-129 2/26/2009	GP-130 2/26/2009	GP-131 2/26/2009	GP-132 2/26/2009	GP-133 2/27/2009	GP-134 2/27/2009	NYSDEC STANDARD
VOCs (ug/l)													
BENZENE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1
ETHYL BENZENE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	5
XYLENE	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	5

WELL ID Sample Date	GP-135 2/27/2009	GP-136 2/27/2009	GP-137 2/27/2009	GP-138 2/27/2009	GP-139 3/3/2009	GP-140 3/3/2009	GP-141 3/3/2009	GP-142 7/29/2009	GP-143 7/29/2009	GP-144 7/29/2009	GP-145 7/29/2009	GP-146 7/29/2009	NYSDEC STANDARD
VOCs (ug/l)													
BENZENE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1
ETHYL BENZENE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	5
XYLENE	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	5

NOTES:

ug/L = Micrograms per liter
VOCs - volatile organic compounds determined by USEPA Method 8260
< = the compound was not detected at a concentration above the laboratory reporting limit. The number proceeding the less than symbol (<) is the laboratory's reporting limit for the compound.
NYSDEC Standards - NYS Division of Water Technical and Operational Guidance Series (1.1.1) 1998

Final

TABLE 3
SUMMARY OF GROUNDWATER ELEVATION DATA- OCTOBER 2009
HANCOCK AIR NATIONAL GUARD BASE- SYRACUSE, NEW YORK
NYSDEC SITE NUMBER 734054
ERM PROJECT NUMBER 0086335

Well ID	MW-2	MW-3	MW-4	MW-5	MW-8	MW-9	MW-11	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-22	RW-1
Top of Casing	399.45	399.91	399.80	400.34	398.00	396.15	399.69	402.92	402.17	402.18	400.33	400.10	396.35	397.81	401.11	400.11
Date																
11-Apr-2005	391.17	391.72	391.99	394.76	389.28	390.97	390.14	391.45	390.95	390.71	390.24	394.32	389.66	390.22	392.58	390.87
28-Sep-2005	388.33	388.44	388.67	390.52	387.63	386.99	388.05	388.20	388.00	388.05	387.49	391.12	387.10	387.47	389.26	387.92
6-Nov-2006	390.02	390.96	391.13	393.25	389.69	389.74	390.37	390.65	390.25	390.07	389.60	393.36	389.13	389.58	390.88	390.15
4-Feb-2008	390.04	390.80	392.18	393.26	389.58	389.79	390.18	390.36	390.11	390.00	389.50	393.41	389.11	389.63	390.58	390.06
13-Apr-2009	390.52	391.49	391.62	394.41	390.22	390.57	390.84	391.11	390.65	390.54	390.02	394.08	389.54	389.93	391.50	390.57
6-Oct-2009	388.22	388.68	388.85	390.86	387.95	387.32	388.24	388.41	388.23	388.40	387.79	391.37	387.42	387.70	388.76	388.20

Well ID	MW-101	MW-102	MW-103	MW-104	MW-105	MW-106	MW-107	MW-108	MW-109	MW-110	MW-111	MW-112	MW-113	MW-114
Top of Casing	401.58	400.70	397.74	394.43	396.38	388.54	391.85	401.73	400.00	389.77	388.05	388.33	385.93	383.19
Date														
11-Apr-2005	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
28-Sep-2005	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
6-Nov-2006	392.08	391.60	388.95	388.22	388.57	386.48	387.15	NM	NM	NM	NM	NM	NM	NM
4-Feb-2008	391.79	391.56	389.09	388.30	388.63	386.63	387.41	392.60	390.77	386.51	385.61	386.01	NM	NM
13-Apr-2009	392.74	392.18	389.27	388.62	388.83	386.87	387.65	393.29	391.33	386.76	385.80	386.26	NM	NM
6-Oct-2009	390.06	389.81	387.33	387.01	387.00	385.81	386.31	390.80	389.08	385.74	385.13	385.44	384.25	383.19

NOTES:
- Top of casing provided by others.
- Measurements reported in feet.
NM - Not measured.

TABLE 4 - Final
SUMMARY OF GROUNDWATER ANALYTICAL DATA - 2005 through 2009
SITE 15- 174th FIGHTER WING AIR NATIONAL GUARD
HANCOCK FIELD, SYRACUSE, NY
NYSDEC SITE NUMBER 734054
ERM PROJECT NUMBER 0086335

WELL ID Sample Date	MW-2					MW-3					MW-4					MW-5					NYSDEC STANDARD
	Apr-05	Sep-05	Nov-06	Feb-08	Oct-09	Apr-05	Sep-05	Nov-06	Feb-08	Oct-09	Apr-05	Sep-05	Nov-06	Feb-08	Oct-09	Apr-05	Sep-05	Nov-06	Feb-08	Oct-09	
VOCs (ug/l)																					
BENZENE	----	----	----	----	----	200	57	75	----	----	----	----	----	----	----	----	----	----	----	----	1
ETHYL BENZENE	3.5	83	52	----	200	200	16	61	----	----	----	----	----	----	----	----	----	----	----	----	5
TOLUENE	----	----	----	----	NA	----	----	0.34J	----	NA	----	----	----	----	NA	----	----	----	----	NA	5
XYLENE	2	98	44	----	370	95	15	28	----	----	----	----	----	----	----	----	----	----	----	----	5
MTBE	----	----	----	----	NA	----	----	----	----	NA	----	----	----	----	NA	----	----	----	----	NA	10
NATURAL ATTENUATION PARAMETERS (mg/l)																					
NITRATE	0.55	----	0.17	0.86	< 0.1	0.21	----	----	0.33	< 0.1	0.13	0.41	----	0.18	0.21	1.20	0.98	0.28	1.3	< 0.1	NA
SULFATE	67.0	7.5	37	98	2.8	2.8	2.4	4	6.0	9.3	26.0	26.0	8.9	3.7	37.0	12.0	15.0	11	8.0	8.6	NA
ALKALINITY	300	310	380	190	400	270	350	300	120	360	190	250	240	40	290	220	260	340	140	280	NA
TOTAL HARDNESS	740	310	350	820	590	380	310	230	57	500	240	250	180	37	350	280	260	270	180	310	NA
AMMONIA	----	0.088	UJ	0.046	0.20	----	0.76	0.065J	----	0.75	----	0.18	----	----	0.11	----	----	UJ	----	<0.03	NA
METHANE	----	8.800	----	0.0076	4.4	0.100	1.600	----	----	0.28	0.011	0.011	----	----	0.012	----	----	----	----	0.02	NA
PARAMETERS MEASURED IN THE FIELD																					
FERROUS IRON	----	3.8	0.9	0.8	4.2	6.1	3.3	2.2	0	2.1	----	1.200	0	0	1	----	0.300	0	0	1.7	NA
pH	7.06	6.95	8.26	6.96	7.54	6.92	6.45	6.77	6.3	6.33	7.30	6.88	8.26	7.16	7.43	7.12	8.21	6.68	7.04	7.14	NA
DISSOLVED OXYGEN	0.00	0.00	0.29	2.28	0.18	0.00	0.00	2.79	7.99	0.12	1.15	0.00	0	0.64	0.49	4.80	0.00	0.77	7.70	0.00	NA
OXIDATION REDUCTION POTENTIAL	76	-127	-76	123.9	44.4	-61	-81	-8	146.6	-71	43	-113	-46	186.9	44	146	-50	121	41.6	-109	NA
CONDUCTIVITY	1.120	0.999	1.4	6.794	1.471	0.531	0.811	0.76	0.106	0.822	0.366	0.803	0.391	0.067	0.440	0.391	0.362	0.577	0.377	0.595	NA
FIELD OBSERVATIONS	----	----	----	----	---	Odor	Odor	Odor	----	---	----	----	----	----	----	----	----	----	----	---	----

NOTES:

ug/L = Micrograms per liter

mg/L= Milligrams per liter

VOCs - volatile organic compounds determined by USEPA Method 8260

Sheen= Sheen on purge water and/or sample

NYSDEC Standards - NYS Division of Water Technical and Operational Guidance Series (1.1.1) 1998

The MTBE ground water standard is from NYSDEC's TAGM 8086

- Bold white type with black background indicates exceedance of the NYSDEC Standards or Guidance Value

J = Results greater than the reporting limit that are considered estimated.

UJ= Results less than the reporting limit that are considered estimated.

---- = the compound was not detected at a concentration above the laboratory reporting limit

Natural Attenuation Parameters are used to characterize the physical, chemical and biological response of a hydrologic system to contamination.

Dissolved Oxygen, Oxidation Reduction Potential, pH and conductivity were measured in the field using a Horiba U-22 and flow through cell just prior to collecting samples.

Ferrous Iron concentration were measured using a HACH Test Kit

Ferrous Iron and DO are reported in mg/L

pH is reported in standard units

Oxidation Reduction Potential is reported in mV

Conductivity is reported in ms/cm

Odor = "Petroleum-like" odor

TABLE 4 (Continued) - Final
SUMMARY OF GROUNDWATER ANALYTICAL DATA 2005 through 2009
SITE 15 - 174th FIGHTER WING AIR NATIONAL GUARD
HANCOCK FIELD, SYRACUSE, NY
NYSDEC SITE NUMBER 734054
ERM PROJECT NUMBER 0086335

WELL ID	MW-8					MW-9					MW-11					MW-14					NYSDEC
Sample Date	Apr-05	Sep-05	Nov-06	Feb-08	Oct-09	Apr-05	Sep-05	Nov-06	Feb-08	Oct-09	Apr-05	Sep-05	Nov-06	Feb-08	Oct-09	Apr-05	Sep-05	Nov-06	Feb-08	Oct-09	STANDARDS
VOCs (ug/l)																					
BENZENE	----	----	----	----	----	----	----	----	----	----	32	31	17	----	49	3.7	4.5	2	----	3.9	1
ETHYL BENZENE	6.4	----	----	----	----	----	----	----	----	----	----	1.4	0.63J	----	11	----	1.2	0.22J	----	----	5
TOLUENE	----	----	----	----	NA	----	----	----	----	NA	----	----	0.11J	----	NA	----	----	----	----	NA	5
XYLENE	4	----	----	----	----	----	----	----	----	----	----	5.2	0.36J	----	16	----	----	----	----	----	5
MTBE	----	----	----	----	NA	----	----	----	----	NA	----	2.2	----	----	NA	----	1.9	----	----	NA	10
NATURAL ATTENUATION PARAMETERS (mg/l)																					
NITRATE	0.20	----	----	1.2	< 0.1	0.16	0.37	0.1	0.91	< 0.1	0.23	0.15	----	0.34	<0.1	0.77	----	----	0.26	<0.1	NA
SULFATE	24.0	28.0	42	8.7	52.0	38.0	21.0	20	6.1	12.0	8.8	22.0	22	72	4.5	24.0	43.0	45	66.0	45.0	NA
ALKALINITY	320	320	250	88	400	110	200	270	32	260	330	330	260	370	360	230	320	370	350	340	NA
TOTAL HARDNESS	380	120	370	96	650	130	360	83	26	220	320	320	370	440	510	230	350	380	400	470	NA
AMMONIA	----	----	UJ	----	< 0.03	----	0.25	0.12J	0.14	0.37	----	----	0.042J	----	<0.03	----	----	0.2	----	<0.03	NA
METHANE	0.730	0.015	----	0.0024	0.011	----	0.020	----	----	----	0.006	0.740	----	0.052	1.6	1.800	0.130	0.039	0.14	0.16	NA
PARAMETERS MEASURED IN THE FIELD																					
FERROUS IRON	2.0	2.4	1	0.8	1.2	0.1	2.0	1.05	1.1	2.0	4.0	4.4	1.6	2.5	2.2	0.5	2.8	NM	1.4	2.0	NA
pH	6.94	7.12	4.58	6.29	7.70	6.27	6.51	6.41	6.64	8.31	7.38	7.19	4.51	7.29	7.00	6.96	7.07	7.33	7.13	7.68	NA
DISSOLVED OXYGEN	0.00	0.00	10.9	6.21	0.35	0.00	0.00	0	10.09	3.02	0.00	0.00	11.36	0.23	0.00	2.12	0.00	0	0.20	0.15	NA
OXIDATION REDUCTION POTENTIAL	-28	-126	271	41	12.8	152	-26	0.43	109.9	-144.7	-271	-155	270	-93.1	-163	-14	-137	-121	-50.2	14.7	NA
CONDUCTIVITY	0.706	0.999	0	0.172	0.873	1.270	0.969	0.83	0.137	1.006	0.643	0.97	0	1.056	1.280	0.496	0.9	0.91	0.567	0.467	NA
FIELD OBSERVATIONS	----	----	----	----	----	Odor	Odor	----	----	----	Odor	Odor	----	----	Odor	Odor	Odor	Odor	Dye Visible	Dye Visible	----

NOTES:

ug/L = Micrograms per liter

VOCs - volatile organic compounds determined by USEPA Method 8260

NYSDEC Standards - NYS Division of Water Technical and Operational Guidance Series (1.1.1) 1998

The MTBE ground water standard is from NYSDEC's TAGM 8086

- Bold white type with black background indicates exceedance of the NYSDEC Standards or Guidance Value

J = Results greater than the reporting limit that are considered estimated.

UJ= Results less than the reporting limit that are considered estimated.

---- = the compound was not detected at a concentration above the laboratory reporting limit

Natural Attenuation Parameters are used to characterize the physical, chemical and biological response of a hydrologic system to contamination.

Dissolved Oxygen, Oxidation Reduction Potential, pH and conductivity were measured in the field using a Horiba U-22 and flow through cell just prior to collecting samples.

Ferrous Iron concentration were measured using a HACH Test Kit

Ferrous Iron and DO are reported in mg/L

pH is reported in standard units

Oxidation Reduction Potential is reported in mV

Conductivity is reported in ms/cm

Odor = "Petroleum-like" odor

mg/L= Milligrams per liter

Sheen= Sheen on purge water and/or sample

TABLE 4 (Continued) - Final
SUMMARY OF GROUNDWATER ANALYTICAL DATA 2005 through 2009
SITE 15 - 174th FIGHTER WING AIR NATIONAL GUARD
HANCOCK FIELD, SYRACUSE, NY
NYSDEC SITE NUMBER 734054
ERM PROJECT NUMBER 0086335

WELL ID	MW-15					MW-16					MW-17					MW-18					NYSDEC
Sample Date	Apr-05	Sep-05	Nov-06	Feb-08	Oct-09	Apr-05	Sep-05	Nov-06	Feb-08	Oct-09	Apr-05	Sep-05	Nov-06	Feb-08	Oct-09	Apr-05	Sep-05	Nov-06	Feb-08	Oct-09	STANDARDS
VOCs (ug/l)																					
BENZENE	100	140	66	6.8	10	----	----	----	----	----	----	----	0.18J	----	----	----	----	----	----	----	1
ETHYL BENZENE	28	33	38	----	11	----	----	0.25J	----	----	----	2	49	----	----	----	----	----	----	----	5
TOLUENE	----	----	----	----	NA	----	----	0.38J	----	NA	----	----	----	----	NA	----	----	----	----	NA	5
XYLENE	3	----	----	----	----	----	----	----	----	----	----	----	31	----	----	----	----	----	----	----	5
MTBE	----	2.8	----	----	NA	----	----	----	----	NA	----	----	----	----	NA	----	----	----	----	NA	10
NATURAL ATTENUATION PARAMETERS (mg/l)																					
NITRATE	0.21	----	----	0.8	<0.1	0.20	----	0.11	0.48	<0.1	3.20	0.13	----	3.3	<0.1	1.40	0.34	0.83	0.52	<0.1	NA
SULFATE	37.0	17.0	27	28	31	62.0	37.0	99	63	63	58.0	16.0	41	27	19	13.0	12.0	13	6.0	14.0	NA
ALKALINITY	380	340	290	410	340	260	350	520	400	370	260.0	360.0	320	260	370	290	310	320	92	390	NA
TOTAL HARDNESS	430	370	380	460	420	450	390	480	530	550	300	370	370	260	540	300	280	300	99	430	NA
AMMONIA	----	----	0.11J	0.041	<0.03	----	----	5.1J	----	<0.03	1.50	1.20	0.13J	----	0.22	----	----	UJ	----	<0.03	NA
METHANE	2.100	1.400	----	0.93	0.19	----	0.057	0.0078	----	0.0089	0.033	1.400	----	----	1.1	----	----	----	----	0.0029	NA
PARAMETERS MEASURED IN THE FIELD																					
FERROUS IRON	4.6	3.1	2.95	2.2	2.4	----	0.400	NM	0.2	0.2	----	2.200	3.2	0	1.4	----	0.000	0	0	0	NA
pH	7.00	6.88	7.2	7.16	7.55	7.17	6.99	7.15	6.67	7.60	7.35	6.83	7.01	6.75	6.69	7.25	8.10	7.13	7.07	7.49	NA
DISSOLVED OXYGEN	0.00	0.00	0	0.31	0.13	1.70	0.00	0	1.30	0.42	0.00	0.00	0	6.29	0.00	0.20	0.00	0	1.06	1.11	NA
OXIDATION REDUCTION POTENTIAL	-67	150	-153	-99.1	7.8	-85	-16	-19	153.8	18.9	-308	-139	-98	53.9	-115	-202	127	185	181.1	44.5	NA
CONDUCTIVITY	1.170	1.01	0.99	0.630	525	1.050	0.97	3.06	1.052	0.891	0.623	0.6	0.9	0.522	1.260	0.486	0.378	0.986	0.143	0.568	NA
FIELD OBSERVATIONS	----	----	Odor	----	Odor	----	----	----	Dye Visible	Dye Visible	----	----	----	----	----	----	----	----	----	----	----

NOTES:

ug/L = Micrograms per liter

VOCs - volatile organic compounds determined by USEPA Method 8260

NYSDEC Standards - NYS Division of Water Technical and Operational Guidance Series (1.1.1) 1998

The MTBE ground water standard is from NYSDEC's TAGM 8086

- Bold white type with black background indicates exceedance of the NYSDEC Standards or Guidance Value

J = Results greater than the reporting limit that are considered estimated.

UJ= Results less than the reporting limit that are considered estimated.

---- = the compound was not detected at a concentration above the laboratory reporting limit

Natural Attenuation Parameters are used to characterize the physical, chemical and biological response of a hydrologic system to contamination.

Dissolved Oxygen, Oxidation Reduction Potential, pH and conductivity were measured in the field using a Horiba U-22 and flow through cell just prior to collecting samples.

Ferrous Iron concentration were measured using a HACH Test Kit

Ferrous Iron and DO are reported in mg/L

pH is reported in standard units

Oxidation Reduction Potential is reported in mV

Conductivity is reported in ms/cm

Odor = "Petroleum-like" odor

mg/L= Milligrams per liter

Sheen= Sheen on purge water and/or sample

TABLE 4 (Continued) - Final
SUMMARY OF GROUNDWATER ANALYTICAL DATA 2005 through 2009
SITE 15 - 174th FIGHTER WING AIR NATIONAL GUARD
HANCOCK FIELD, SYRACUSE, NY
NYSDEC SITE NUMBER 734054
ERM PROJECT NUMBER 0086335

WELL ID	MW-19							MW-20					MW-22					NYSDEC
Sample Date	Apr-05	Sep-05	Nov-06	Feb-08	Apr-09	Aug-09	Oct-09	Apr-05	Sep-05	Nov-06	Feb-08	Oct-09	Apr-05	Sep-05	Nov-06	Feb-08	Oct-09	STANDARDS
VOCs (ug/l)																		
BENZENE	28	33	17J	----	0.71 J	6	< 10	----	----	----	----	----	110	70	51	----	5.6	1
ETHYL BENZENE	300	610	270	8.5	17	410	380	----	----	----	----	----	89	32	82	----	21	5
TOLUENE	----	----	----	----	NA	NA	NA	----	----	----	----	NA	----	----	0.34J	----	NA	5
XYLENE	650	860	460	9	20	760	420	----	----	----	----	----	88	46	90	----	3	5
MTBE	----	----	----	----	NA	NA	NA	----	----	----	----	NA	----	----	----	----	NA	10
NATURAL ATTENUATION PARAMETERS (mg/l)																		
NITRATE	0.19	----	----	0.28	----	----	<0.1	0.45	----	----	1.4	<0.1	1.50	----	0.3	1.9	<0.1	NA
SULFATE	15.0	----	11	25.0	20.0	6.7	4.9	36.0	15.0	240	11.0	9.4	32.0	8.8	41	16.0	31.0	NA
ALKALINITY	350	330	240	410	330	330	340	340	340	370	67	350	330	400	370	170	410	NA
TOTAL HARDNESS	340	350	330	350	400	560	550	420	330	300	83	330	390	340	340	160	570	NA
AMMONIA	----	----	0.75J	----	----	0.077	0.16	----	----	0.03J	----	< 0.03	----	0.12	0.1	----	<0.03	NA
METHANE	3.400	3.500	----	0.99	0.61	0.98	3	0.018	0.027	----	----	0.13	2.300	1.800	1.3	0.017	1.0	NA
PARAMETERS MEASURED IN THE FIELD																		
FERROUS IRON	----	4.100	2.2	2	1.7	2.7	1.9	----	2.500	1.2	0	1.8	----	5.300	NM	0	0.8	NA
pH	6.78	6.68	4.66	6.37	7.1	6.64	8.21	7.06	6.71	4.69	6.47	7.48	6.87	7.81	5.19	6.57	6.85	NA
DISSOLVED OXYGEN	0.00	0.00	10.95	0.88	0.71	0.29	0.21	0.00	0.00	11.17	0.26	0.23	5.70	0.00	9.55	0.16	0.00	NA
OXIDATION REDUCTION POTENTIAL	-79	-101	267	23.7	11.6	-33.4	-132.6	-390	-76	261	207.5	-50.1	-242	-92	226	174.9	-25	NA
CONDUCTIVITY	1.210	0.91	0	1.260	0.997	1.052	1.450	0.839	0.954	0	0.143	0.807	0.607	1.07	0	0.155	1.410	NA
FIELD OBSERVATIONS	----	----	----	----	----	Odor	----	----	----	----	----	----	Odor	Odor	----	Odor	----	----

NOTES:

ug/L = Micrograms per liter

mg/L= Milligrams per liter

VOCs - volatile organic compounds determined by USEPA Method 8260

Sheen= Sheen on purge water and/or sample

NYSDEC Standards - NYS Division of Water Technical and Operational Guidance Series (1.1.1) 1998

The MTBE ground water standard is from NYSDEC's TAGM 8086

- Bold white type with black background indicates exceedance of the NYSDEC Standards or Guidance Value

J = Results greater than the reporting limit that are considered estimated.

UJ= Results less than the reporting limit that are considered estimated.

---- = the compound was not detected at a concentration above the laboratory reporting limit

Natural Attenuation Parameters are used to characterize the physical, chemical and biological response of a hydrologic system to contamination.

Dissolved Oxygen, Oxidation Reduction Potential, pH and conductivity were measured in the field using a Horiba U-22 and flow through cell just prior to collecting samples.

Ferrous Iron concentration were measured using a HACH Test Kit

Ferrous Iron and DO are reported in mg/L

pH is reported in standard units

Oxidation Reduction Potential is reported in mV

Conductivity is reported in ms/cm

Odor = "Petroleum-like" odor

TABLE 4 (Continued) - Final
SUMMARY OF GROUNDWATER ANALYTICAL DATA 2005 through 2009
SITE 15 - 174th FIGHTER WING AIR NATIONAL GUARD
HANCOCK FIELD, SYRACUSE, NY
NYSDEC SITE NUMBER 734054
ERM PROJECT NUMBER 0086335

WELL ID	RW-1					MW-101			MW-102			MW-103			MW-104			NYSDEC
Sample Date	Apr-05	Sep-05	Nov-06	Feb-08	Oct-09	Nov-06	Feb-08	Oct-09	Nov-06	Feb-08	Oct-09	Nov-06	Feb-08	Oct-09	Nov-06	Feb-08	Oct-09	STANDARDS
VOCs (ug/l)																		
BENZENE	---	2.4	1.4J	---	---	8.9	---	---	---	---	---	---	---	1.3	---	---	---	1
ETHYL BENZENE	11.0	18	60	45	---	110	22	7.9	---	---	---	---	---	---	---	---	---	5
TOLUENE	---	---	0.4J	---	NA	---	---	NA	---	---	NA	---	---	NA	---	---	NA	5
XYLENE	21.0	36.0	30	60	---	230	41	7.4	---	---	---	---	---	---	---	---	---	5
MTBE	---	---	---	---	NA	---	---	NA	---	---	NA	---	---	NA	---	---	NA	10
NATURAL ATTENUATION PARAMETERS (mg/l)																		
NITRATE	0.12	---	---	0.18	<0.1	0.72	0.47	<0.1	0.13	0.42	<0.1	0.34	0.32	<0.1	0.38	0.3	<0.1	NA
SULFATE	13.0	19.0	170	6.7	5	44	35	42	50	52	5	27	36	33	39	4.5	41	NA
ALKALINITY	200	310	310	250	310	380	300	360	410	390	340	250	340	330	330	54	370	NA
TOTAL HARDNESS	240.0	310.0	380	280	430	430	420	490	550	520	640	310	360	510	440	22	500	NA
AMMONIA	0.45	0.34	1.1	0.44	0.82	0.12	---	<0.03	UJ	---	<0.03	---	---	<0.03	0.13	0.34	<0.03	NA
METHANE	1.300	1.300	6.3	4.4	1.3	0.63	0.55	0.44	0.026	0.016	0.0084	0.27	0.90	0.0970	0.055	---	0.033	NA
PARAMETERS MEASURED IN THE FIELD																		
FERROUS IRON	1.0	3.2	NM	1.3	2.5	2.8	1.6	1.2	0.6	0.4	1.8	1.2	0.9	2.9	0.2	0.0	2.1	NA
pH	7.11	7.01	6.8	6.90	6.83	5.15	7.82	6.98	4.89	6.93	7.40	4.65	7.12	6.82	7.27	6.99	7.55	NA
DISSOLVED OXYGEN	0.00	0.00	0	0.13	0.00	9.84	0.50	0.00	9.9	0.72	0.16	10.92	0.33	0.00	0	12.38	0.28	NA
OXIDATION REDUCTION POTENTIAL	-129	-166	-200	-248.8	-156	238	-35.2	-103	267	46.3	46.8	275	-48.9	-132	-51	112.3	-70.5	NA
CONDUCTIVITY	0.605	0.999	12.1	0.666	1.100	0	0.731	1.280	0	1.459	1.532	0	1.776	1.420	1.49	0.034	1.674	NA
FIELD OBSERVATIONS	Odor/ Sheen	Odor	Odor	Odor/sheen	Dye Visible/ Odor	Odor/sheen	---	---	---	---	---	---	---	---	---	---	---	---

NOTES:

ug/L = Micrograms per liter

mg/L= Milligrams per liter

VOCs - volatile organic compounds determined by USEPA Method 8260

Sheen= Sheen on purge water and/or sample

NYSDEC Standards - NYS Division of Water Technical and Operational Guidance Series (1.1.1) 1998

The MTBE ground water standard is from NYSDEC's TAGM 8086

- Bold white type with black background indicates exceedance of the NYSDEC Standards or Guidance Value

J = Results greater than the reporting limit that are considered estimated.

UJ= Results less than the reporting limit that are considered estimated.

---- = the compound was not detected at a concentration above the laboratory reporting limit

Natural Attenuation Parameters are used to characterize the physical, chemical and biological response of a hydrologic system to contamination.

Dissolved Oxygen, Oxidation Reduction Potential, pH and conductivity were measured in the field using a Horiba U-22 and flow through cell just prior to collecting samples.

Ferrous Iron concentration were measured using a HACH Test Kit

Ferrous Iron and DO are reported in mg/L

pH is reported in standard units

Oxidation Reduction Potential is reported in mV

Conductivity is reported in ms/cm

Odor = "Petroleum-like" odor

TABLE 4 (Continued) -Final
SUMMARY OF GROUNDWATER ANALYTICAL DATA 2005 through 2009
SITE 15 - 174th FIGHTER WING AIR NATIONAL GUARD
HANCOCK FIELD, SYRACUSE, NY
NYSDEC SITE NUMBER 734054
ERM PROJECT NUMBER 0086335

WELL ID	MW-105					MW-106					MW-107					NYSDEC
Sample Date	Nov-06	Feb-08	Apr-09	Aug-09	Oct-09	Nov-06	Feb-08	Apr-09	Aug-09	Oct-09	Nov-06	Feb-08	Apr-09	Aug-09	Oct-09	STANDARDS
VOCs (ug/l)																
BENZENE	110	86	6.2	3.3	16	----	----	----	----	----	0.52J	----	----	----	----	1
ETHYL BENZENE	300	260	120	----	8.6	----	----	----	----	----	30	----	----	----	----	5
TOLUENE	----	----	NA	NA	NA	----	----	NA	NA	NA	----	----	NA	NA	NA	5
XYLENE	480	430	260	----	14	----	----	----	----	----	0.41J	----	0.27 J	----	----	5
MTBE	----	----	NA	NA	NA	0.34J	----	NA	NA	NA	----	----	NA	NA	NA	10
NATURAL ATTENUATION PARAMETERS (mg/l)																
NITRATE	0.11	0.29	0.21	----	<0.1	----	0.12	----	----	<0.1	1.1	2.6	2.1	0.41	0.54	NA
SULFATE	6.3	5.6	8.1	25	14	28	42	49	48	36	17	12	15	45	42	NA
ALKALINITY	270	420	380	320	360	420	340	390	340	340	290	100	200	190	180	NA
TOTAL HARDNESS	370	320	370	370	460	430	410	450	550	380	360	120	200	510	330	NA
AMMONIA	0.054	----	----	----	<0.03	UJ	----	----	----	<0.03	0.099	----	---	---	<0.03	NA
METHANE	3.3	7.8	2.8	1.5	0.51	0.14	0.07	0.051	0.28	0.045	0.29	----	0.0049	0.033	0.057	NA
PARAMETERS MEASURED IN THE FIELD																
FERROUS IRON	2.2	1.1	3.5	0.8	2.9	0	0.0	0.8	0.0	0.0	1.6	0.0	0.0	5.2	3.5	NA
pH	4.64	6.97	7.39	7.21	7.77	7.32	7.35	6.97	7.53	7.38	5	6.88	6.92	7.62	7.49	NA
DISSOLVED OXYGEN	11.09	0.38	0.29	2.95	0.38	0	0.19	0.23	0.26	0.14	10.45	7.57	4.89	2.57	2.24	NA
OXIDATION REDUCTION POTENTIAL	272	-66.1	-43.1	86.1	-107.1	-20	-58.7	-5.3	10.1	-6.0	255	99.8	21.4	-21.7	-17.7	NA
CONDUCTIVITY	0	0.567	817	0.956	1.128	1.66	0.558	1.404	0.850	0.854	0	0.490	0.845	0.915	1.238	NA
FIELD OBSERVATIONS	Odor/sheen	Odor	Odor	Oxidant in H2O	----	----	----	----	----	----	----	----	----	----	----	----

NOTES:

- ug/L = Micrograms per liter
- mg/L= Milligrams per liter
- VOCs - volatile organic compounds determined by USEPA Method 8260
- Sheen= Sheen on purge water and/or sample
- NYSDEC Standards - NYS Division of Water Technical and Operational Guidance Series (1.1.1) 1998
- The MTBE ground water standard is from NYSDEC's TAGM 8086
- Bold white type with black background indicates exceedance of the NYSDEC Standards or Guidance Value
- J = Results greater than the reporting limit that are considered estimated.
- UJ= Results less than the reporting limit that are considered estimated.
- = the compound was not detected at a concentration above the laboratory reporting limit
- Natural Attenuation Parameters are used to characterize the physical, chemical and biological response of a hydrologic system to contamination.
- Dissolved Oxygen, Oxidation Reduction Potential, pH and conductivity were measured in the field using a Horiba U-22 and flow through cell just prior to collecting samples.
- Ferrous Iron concentration were measured using a HACH Test Kit
- Ferrous Iron and DO are reported in mg/L
- pH is reported in standard units
- Oxidation Reduction Potential is reported in mV
- Conductivity is reported in ms/cm
- Odor = "Petroleum-like" odor

TABLE 4 (Continued) - Final
SUMMARY OF GROUNDWATER ANALYTICAL DATA 2005 through 2009
SITE 15 - 174th FIGHTER WING AIR NATIONAL GUARD
HANCOCK FIELD, SYRACUSE, NY
NYSDEC SITE NUMBER 734054
ERM PROJECT NUMBER 0086335

WELL ID	MW-108		MW-109		MW-110		MW-111				MW-112				MW-113		MW-114		NYSDEC
Sample Date	Feb-08	Oct-09	Feb-08	Oct-09	Feb-08	Oct-09	Feb-08	Apr-09	Aug-09	Oct-09	Feb-08	Apr-09	Aug-09	Oct-09	Feb-08	Oct-09	Feb-08	Oct-09	STANDARDS
VOCs (ug/l)																			
BENZENE	----	----	----	----	----	----	----	----	----	----	----	13	6.9	< 10	----	----	----	----	1
ETHYL BENZENE	----	----	----	----	----	----	----	----	----	----	410	250	300	48	----	----	----	----	5
TOLUENE	----	NA	----	NA	----	NA	----	NA	NA	NA	----	NA	NA	NA	NA	NA	NA	NA	5
XYLENE	----	----	----	----	----	----	----	----	----	----	740	480	170	<20	----	----	----	----	5
MTBE	----	NA	----	NA	----	NA	----	NA	NA	NA	----	NA	NA	NA	NA	NA	NA	NA	10
NATURAL ATTENUATION PARAMETERS (mg/l)																			
NITRATE	0.39	<0.1	0.66	<0.1	----	<0.1	----	----	----	<0.1	----	----	----	1.4	----	<0.1	----	<0.1	NA
SULFATE	41	44	70	65	41	57	65	45	48	49	19	11	11	8.4	11	62	11	56	NA
ALKALINITY	400	380	410	340	370	380	350	360	330	360	370	360	330	340	330	470	330	350	NA
TOTAL HARDNESS	510	540	460	420	450	570	410	490	600	540	380	570	530	510	530	540	530	400	NA
AMMONIA	< 0.03	< 0.03	< 0.03	< 0.03	----	< 0.03	----	----	----	< 0.03	----	----	----	0.051	----	< 0.03	----	< 0.03	NA
METHANE	0.018	0.0082	0.28	0.0078	0.048	0.061	0.044	0.040	0.051	0.039	7.2	3	1.6	1.4	1.6	0.021	1.6	0.0044	NA
PARAMETERS MEASURED IN THE FIELD																			
FERROUS IRON	1.6	1.2	0.0	0.2	0.4	0.0	0.0	0.0	0.2	0.0	1.3	2.1	2.2	0.0	1.7	1.5	1.8	1.4	NA
pH	6.92	6.93	6.95	7.49	7.14	7.54	7.23	7.34	7.24	7.21	7.25	8.30	6.57	7.33	7.06	7.19	6.90	7.12	NA
DISSOLVED OXYGEN	0.39	0	0.04	0.68	0.11	0.17	0.10	0.28	0.33	0.15	0.42	0.16	0.37	0.26	0.30	0.00	0.14	0.00	NA
OXIDATION REDUCTION POTENTIAL	27.6	-61	162.5	59.1	0.4	30.7	14.7	22.3	28.8	27.9	-110.2	-74.6	-71.3	21.5	-57.8	-42.7	-43.3	-112	NA
CONDUCTIVITY	1.033	2.16	1.269	1	0.970	1.311	0.725	0.848	1.199	1.750	0.599	0.855	15.890	1.481	1.349	1.863	1.055	1.38	NA
FIELD OBSERVATIONS	----		----	----	----	----	----	----	----	----	Odor	Odor	Odor	Odor	----	----	artesian	artesian	----

NOTES:

- ug/L = Micrograms per liter
- mg/L= Milligrams per liter
- VOCs - volatile organic compounds determined by USEPA Method 8260
- Sheen= Sheen on purge water and/or sample
- NYSDEC Standards - NYS Division of Water Technical and Operational Guidance Series (1.1.1) 1998
- The MTBE ground water standard is from NYSDEC's TAGM 8086
- Bold white type with black background indicates exceedance of the NYSDEC Standards or Guidance Value
- J = Results greater than the reporting limit that are considered estimated.
- UJ= Results less than the reporting limit that are considered estimated.
- = the compound was not detected at a concentration above the laboratory reporting limit
- Natural Attenuation Parameters are used to characterize the physical, chemical and biological response of a hydrologic system to contamination.
- Dissolved Oxygen, Oxidation Reduction Potential, pH and conductivity were measured in the field using a Horiba U-22 and flow through cell just prior to collecting samples.
- Ferrous Iron concentration were measured using a HACH Test Kit
- Ferrous Iron and DO are reported in mg/L
- pH is reported in standard units
- Oxidation Reduction Potential is reported in mV
- Conductivity is reported in ms/cm
- Odor = "Petroleum-like" odor

APPENDIX A

DAILY FIELD LOGS

ERM
DAILY FIELD REPORT

DATE: 2/25/09 JOB NO: 86335
TIME: (arrive) 6:15 (depart) 16:00

LOCATION: National Grid Property
FILED BY: RS

ACTIVITY: DPI
SIGNATURE: [Signature]

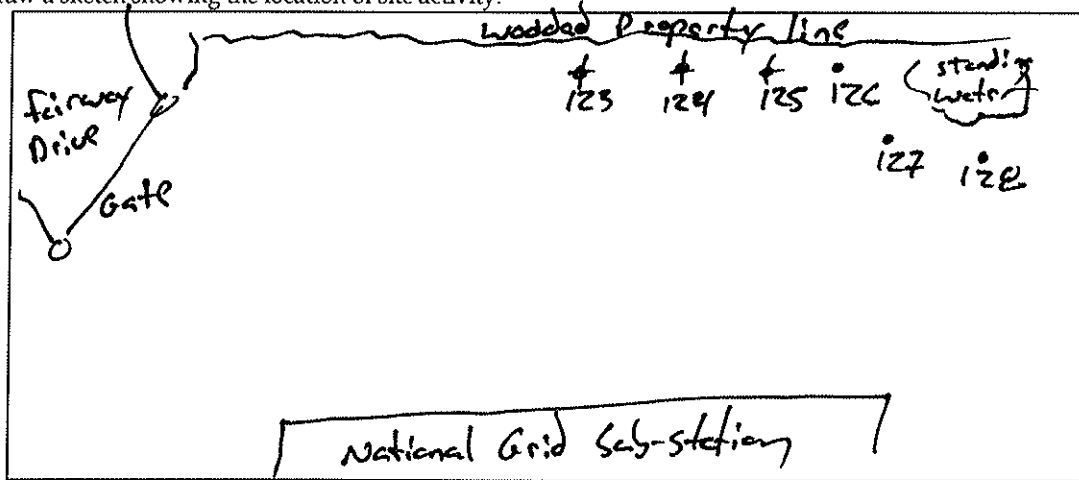
FORMS ATTACHED TO THIS REPORT:

- | | | |
|--|---|--|
| <input type="checkbox"/> Chain of Custody | <input type="checkbox"/> Field Sampling Reports | <input type="checkbox"/> Subcontractor Invoice |
| <input type="checkbox"/> Shipping Manifest | <input type="checkbox"/> Equipment Charge | <input type="checkbox"/> Injury Report |

1. Significant work accomplished today?

- Conduct health & safety meeting
- Complete 5 borings and collect 5 grab water samples w/ SP-16

Draw a sketch showing the location of site activity.



2. What field personnel and equipment were used today?

Dave Myers
Rob Sents

Field vehicles
PID
PPE

3. What unusual events happened today?

Describe:

No

4. Was any property damaged?

YES

NO

Explain:

5. What were the weather conditions at the site?

Time of Observation: 8:30Precipitation: noGround moisture: Frozen, snow coverSkies: clearAir Temperature: +12°FWind (direction and speed): —

6. Were there any visitors to the site? YES

NO

NAME - COMPANY - PURPOSE OF VISIT

7. Were any photographs taken by ERM personnel?

YES

NO

Please detail location and description:

See client file

8. Additional comments (i.e. Additional work performed outside of ERM's initial scope of work):

see field notes for additional comments

Please attach additional pages and copies of field notes and chain of custody to this sheet, and send to file!

ERM
DAILY FIELD REPORT

DATE: 2/26/09 JOB NO: 86335
TIME: (arrive) 7:05 (depart) 18:00

LOCATION: National Grid Property ACTIVITY: DPE off site
FILED BY: RS SIGNATURE: [Signature]

FORMS ATTACHED TO THIS REPORT:

- | | | |
|--|---|--|
| <input type="checkbox"/> Chain of Custody | <input type="checkbox"/> Field Sampling Reports | <input type="checkbox"/> Subcontractor Invoice |
| <input type="checkbox"/> Shipping Manifest | <input type="checkbox"/> Equipment Charge | <input type="checkbox"/> Injury Report |

1. Significant work accomplished today?

- Conduct health and safety meeting
- Decon on base property
- completed 6 borings and collect 6 grab water sample w/ SP-1C sampler using a Geoprobe GC10

Draw a sketch showing the location of site activity.

see field book

2. What field personnel and equipment were used today?

Rob Sants
Dave Myers

PID
PPE
field vehicle

3. What unusual events happened today?

Describe:

no

4. Was any property damaged?

YES

NO

Explain:

5. What were the weather conditions at the site?

Time of Observation:

7:05

Precipitation:

no

Ground moisture:

snow covered

Skies:

overcast

Air Temperature:

±40°F

Wind (direction and speed):

calm

6. Were there any visitors to the site?

YES

NO

NAME - COMPANY - PURPOSE OF VISIT

ECSEI - sub contracted

7. Were any photographs taken by ERM personnel?

YES

NO

Please detail location and description:

see client digital folder

8. Additional comments (i.e. Additional work performed outside of ERM's initial scope of work):

see fieldnotes for additional comments

Please attach additional pages and copies of field notes and chain of custody to this sheet, and send to file!

ERM
DAILY FIELD REPORT

DATE: 2/27/09 JOB NO: 86335
TIME: (arrive) 7:00 (depart) 16:00

LOCATION: National Grid 8 CPI Property ACTIVITY: DPI gffs. to
FILED BY: RS SIGNATURE: [Signature]

FORMS ATTACHED TO THIS REPORT:

- | | | |
|--|---|--|
| <input type="checkbox"/> Chain of Custody | <input type="checkbox"/> Field Sampling Reports | <input type="checkbox"/> Subcontractor Invoice |
| <input type="checkbox"/> Shipping Manifest | <input type="checkbox"/> Equipment Charge | <input type="checkbox"/> Injury Report |

1. Significant work accomplished today?

- Conducted health and safety meeting
- Calibrate equipment
- Completed 5 borings and collect 5 grab water sample using a Geoprobe.
- Samples dropped off at project laboratory

Draw a sketch showing the location of site activity.

see field book

2. What field personnel and equipment were used today?

Rob Sents
Dave Myers

Vehicles
PID
PPE

3. What unusual events happened today?

Describe:

no

4. Was any property damaged?

YES

NO

Explain:

5. What were the weather conditions at the site?

Time of Observation:

7:00

Precipitation:

no

Ground moisture:

snowy and very wet

Skies:

overcast

Air Temperature:

±50°F

Wind (direction and speed):

20-40 mph SW

6. Were there any visitors to the site?

YES

NO

NAME - COMPANY - PURPOSE OF VISIT

ECSEI - Subcontracted Driller

7. Were any photographs taken by ERM personnel?

YES

NO

Please detail location and description:

In client folder, see field book
for details

8. Additional comments (i.e. Additional work performed outside of ERM's initial scope of work):

see field notes for additional comments

Please attach additional pages and copies of field notes and chain of custody to this sheet, and send to file!

ERM
DAILY FIELD REPORT

DATE: 3/3/09 JOB NO: 86335
TIME: (arrive) 8:30 (depart) 16:00

LOCATION: CPI Property ACTIVITY: DPI off site
FILED BY: _____ SIGNATURE: [Signature]

FORMS ATTACHED TO THIS REPORT:

- | | | |
|--|---|--|
| <input type="checkbox"/> Chain of Custody | <input type="checkbox"/> Field Sampling Reports | <input type="checkbox"/> Subcontractor Invoice |
| <input type="checkbox"/> Shipping Manifest | <input type="checkbox"/> Equipment Charge | <input type="checkbox"/> Injury Report |

1. Significant work accomplished today?

- conduct a health and safety meeting
- completed 3 soil borings and collect 3 grab ground water samples

Draw a sketch showing the location of site activity.

see field note book

2. What field personnel and equipment were used today?

Rob Sonts

Field Vehicle
PID
PPE

3. What unusual events happened today?

Describe:

no

4. Was any property damaged?

YES

NO

Explain:

5. What were the weather conditions at the site?

Time of Observation:

6:30

Precipitation:

no

Ground moisture:

Skies:

overcast

Air Temperature:

±10°F

Wind (direction and speed):

0-15 out NW

6. Were there any visitors to the site?

YES

NO

NAME - COMPANY - PURPOSE OF VISIT

ELSI - subcontracted driller

7. Were any photographs taken by ERM personnel?

YES

NO

Please detail location and description:

in client file

8. Additional comments (i.e. Additional work performed outside of ERM's initial scope of work):

see field notes for additional comments

Please attach additional pages and copies of field notes and chain of custody to this sheet, and send to file!

ERM
DAILY FIELD REPORT

DATE: 4/13/09 JOB NO: 86335
TIME: (arrive) 9:00 (depart) 17:00

LOCATION: Fairway Drive ACTIVITY: GW sampling
FILED BY: _____ SIGNATURE: [Signature]

FORMS ATTACHED TO THIS REPORT:

- | | | |
|--|---|--|
| <input type="checkbox"/> Chain of Custody | <input type="checkbox"/> Field Sampling Reports | <input type="checkbox"/> Subcontractor Invoice |
| <input type="checkbox"/> Shipping Manifest | <input type="checkbox"/> Equipment Charge | <input type="checkbox"/> Injury Report |

1. Significant work accomplished today?

- Conducted health and safety meeting
- Complete round of static liquid levels
- Sample select wells MW-111, MW-105, MW-112, MW-19, MW-107, MW-106
- Drop sample at lab under proper C.O.C. in chilled coolers

Draw a sketch showing the location of site activity.

no sketch

2. What field personnel and equipment were used today?

Rob Sents
Patch, Shannon

Field vehicle
water level indicators
Pumps
YSIs
turb meters
PIU

3. What unusual events happened today?

Describe:

no

4. Was any property damaged?

YES

NO

Explain:

5. What were the weather conditions at the site?

Time of Observation: 4:15

Precipitation: no

Ground moisture: moist

Skies: partly cloudy

Air Temperature: 43°F

Wind (direction and speed): 0.15 out of west

6. Were there any visitors to the site? YES

NO

NAME - COMPANY - PURPOSE OF VISIT

7. Were any photographs taken by ERM personnel?

YES

NO

Please detail location and description:

8. Additional comments (i.e. Additional work performed outside of ERM's initial scope of work):

see field notes for additional comments

Please attach additional pages and copies of field notes and chain of custody to this sheet, and send to file!

ERM RCM
DAILY FIELD REPORT

DATE: 5/11/09 JOB NO: 0066335.32
TIME: (arrive) 1015 (depart) 1330

LOCATION: ANG Property, Golf Course, Ramtech ACTIVITY: _____
FILED BY: Upfou SIGNATURE: _____

FORMS ATTACHED TO THIS REPORT:

- | | | |
|--|---|--|
| <input type="checkbox"/> Chain of Custody | <input type="checkbox"/> Field Sampling Reports | <input type="checkbox"/> Subcontractor Invoice |
| <input type="checkbox"/> Shipping Manifest | <input type="checkbox"/> Equipment Charge | <input type="checkbox"/> Injury Report |

1. Significant work accomplished today?

Used GPR to locate utilities in 4 locations.

ANG AirBase Base bordering East Molloy Road

Brooklawn Golf Course bordering East Molloy Road

Brooklawn Golf Course bordering East Molloy Road

Ramtech property bordering GE.

Draw a sketch showing the location of site activity.

See Attached

Cleared areas outlined in orange.

- noted disturbed soil in area of INT-18 + INT-19

Did not resume drilling until all UFPD's utilities marked out.

2. What field personnel and equipment were used today?

GPR Unit

William Upfou

Ford Truck

3. What unusual events happened today?

Describe: _____

None

4. Was any property damaged?

YES

NO

Explain: _____

5. What were the weather conditions at the site?

Time of Observation: _____

~ 1100

Precipitation: _____

No

Ground moisture: _____

Skies: _____

Clear

Air Temperature: _____

~ 70°F

Wind (direction and speed): _____

Calm

6. Were there any visitors to the site?

YES

NO

NAME - COMPANY - PURPOSE OF VISIT

Rob Sente - Assisted w/ locating injection points

7. Were any photographs taken by ERM RCM personnel?

YES

NO

Please detail location and description: _____

8. Additional comments (i.e. Additional work performed outside of ERM RCMs initial scope of work):

9. Personal Safety Contract (PSC) Cards:

Number of PSC Cards Distributed: _____

Number of PSC Cards Received: _____

Comments: _____

Please attach additional pages and copies of field notes and chain of custody to this sheet, and send to file!

ERM
DAILY FIELD REPORT

DATE: 12 May 09 JOB NO: 0086335.32
TIME: (arrive) _____ (depart) _____

LOCATION: ANG Hancock Field - Syr, NY ACTIVITY: ISCO Pilot Test
FILED BY: RS SIGNATURE: [Signature]

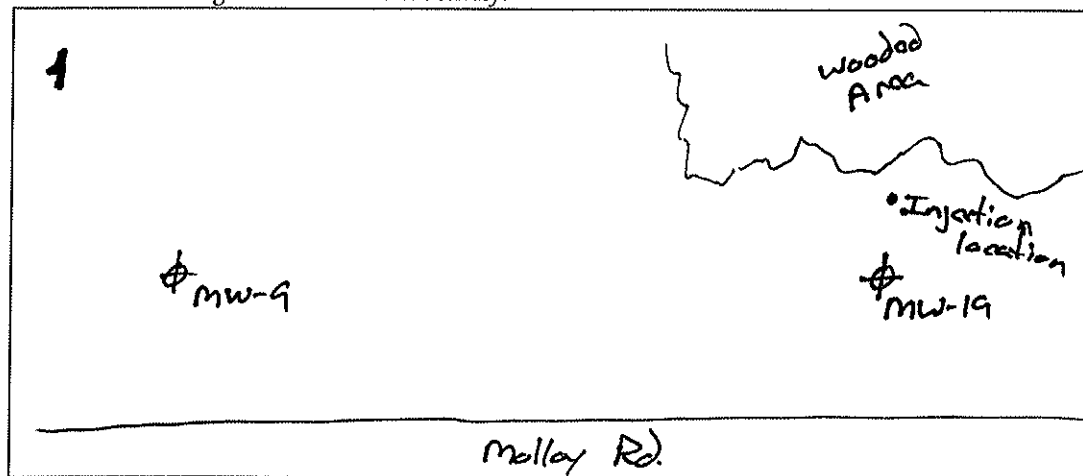
FORMS ATTACHED TO THIS REPORT:

- | | | |
|--|---|--|
| <input type="checkbox"/> Chain of Custody | <input type="checkbox"/> Field Sampling Reports | <input type="checkbox"/> Subcontractor Invoice |
| <input type="checkbox"/> Shipping Manifest | <input type="checkbox"/> Equipment Charge | <input type="checkbox"/> Injury Report |

1. Significant work accomplished today?

- set up decon equipment and get temporary base passes for subcontractors
- Discuss health & safety on project, review HASP and take site walk
- Initiate inject on ANG property just north of Malloy Rd.
- 50 lbs of Permeox injected over the target zone in a slurry. Utilities and surface water monitored

Draw a sketch showing the location of site activity.



2. What field personnel and equipment were used today?

Rob Sants

Dave Myers

Field vehicles

Digital Camera

PPE

3. What unusual events happened today?

Describe: NO

4. Was any property damaged?

☒ YES

NO

Explain:

Minimal damage to grass from track at Geoprobe on ANG property.

5. What were the weather conditions at the site?

Time of Observation:

8:50

Precipitation:

none

Ground moisture:

moist

Skies:

clear

Air Temperature:

±40

Wind (direction and speed):

calm

6. Were there any visitors to the site?

☒ YES

NO

NAME - COMPANY - PURPOSE OF VISIT

ECST - subcontracted drillers
BB+E - ANG oversight

7. Were any photographs taken by ERM personnel?

☒ YES

NO

Please detail location and description:

See attached

8. Additional comments (i.e. Additional work performed outside of ERMs initial scope of work):

NO

Please attach additional pages and copies of field notes and chain of custody to this sheet, and send to file!

ERM
DAILY FIELD REPORT

DATE: 13 May 09 JOB NO: 0086335
TIME: (arrive) 7:30 (depart) 16:50

LOCATION: ANK, Hancock Field - Syr, NY ACTIVITY: ISCO Pilot Test
FILED BY: RS SIGNATURE: Peter Lee

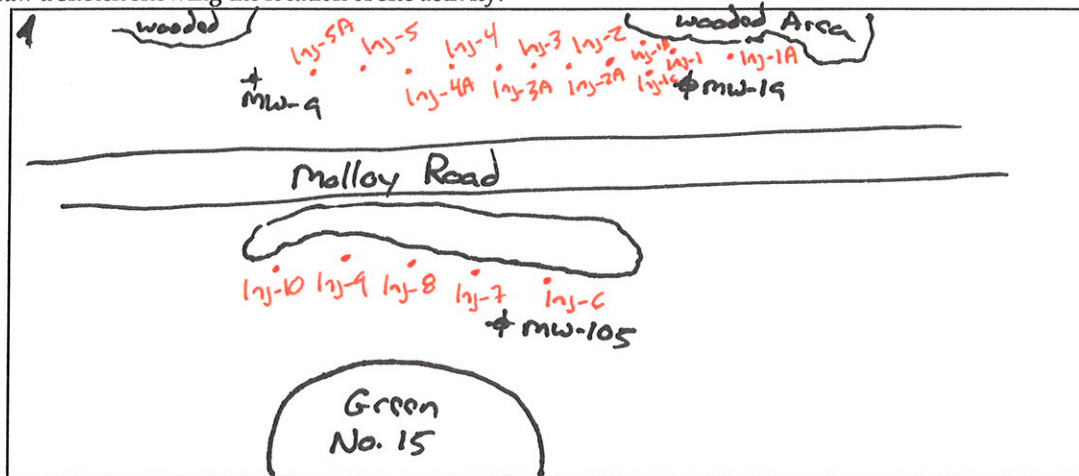
FORMS ATTACHED TO THIS REPORT:

- | | | |
|--|---|--|
| <input type="checkbox"/> Chain of Custody | <input type="checkbox"/> Field Sampling Reports | <input type="checkbox"/> Subcontractor Invoice |
| <input type="checkbox"/> Shipping Manifest | <input type="checkbox"/> Equipment Charge | <input type="checkbox"/> Injury Report |

1. Significant work accomplished today?

- Conducted a health and safety meeting
- Injected 450 lbs of Permeox in a slurry using a grout pump and a Graprobe
- Health and safety audit by Ernie Sweet.
- oversight by Jesh Schools of BB+E

Draw a sketch showing the location of site activity.



2. What field personnel and equipment were used today?

Rob Sants

Deve Myers

field vehicles

Digital Camera

Hand tools

PPE

3. What unusual events happened today?

Describe: no

4. Was any property damaged?

☒ YES

NO

Explain:

Minimal damage done to grass by tracks on Geoprobe.

5. What were the weather conditions at the site?

Time of Observation:

7:20

Precipitation:

no

Ground moisture:

moist

Skies:

clear

Air Temperature:

±50

Wind (direction and speed):

calm

6. Were there any visitors to the site?

☒ YES

NO

NAME - COMPANY - PURPOSE OF VISIT

ECSTI - subcontracted driller

BB+E - AUG oversight

7. Were any photographs taken by ERM personnel?

☒ YES

NO

Please detail location and description:

See Attached

8. Additional comments (i.e. Additional work performed outside of ERM's initial scope of work):

see field notes, all completed w/in scope

Please attach additional pages and copies of field notes and chain of custody to this sheet, and send to file!

ERM
DAILY FIELD REPORT

DATE: 14 May 09 JOB NO: 0086335
TIME: (arrive) 7:00 (depart) 8:00

LOCATION: ANG Hancock Field - Syracuse, NY ACTIVITY: ISCO Pilot Test
FILED BY: RS SIGNATURE: [Signature]

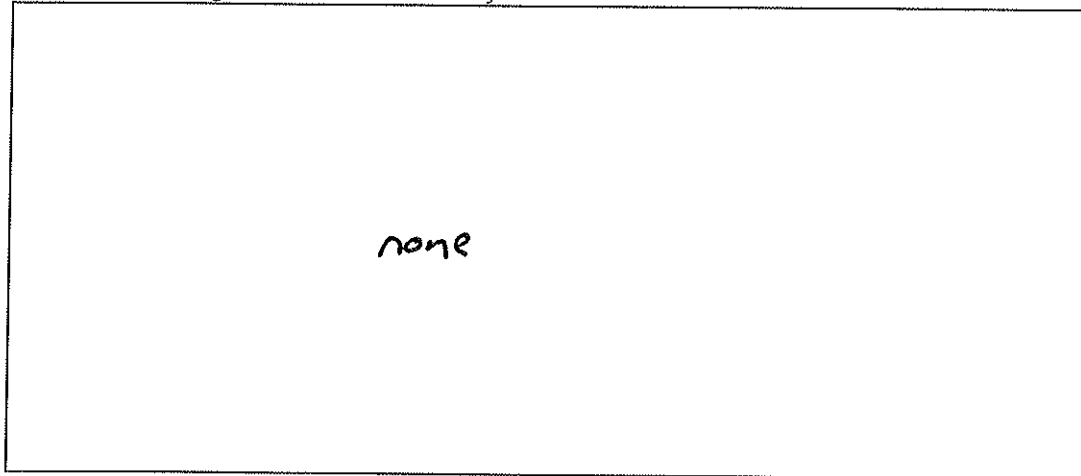
FORMS ATTACHED TO THIS REPORT:

☐ Chain of Custody ☐ Field Sampling Reports ☐ Subcontractor Invoice
☐ Shipping Manifest ☐ Equipment Charge ☐ Injury Report

1. Significant work accomplished today?

- Meet w/ subcontractor on base
- Work called off due to weather conditions,
wind 30-40 mph, expected wind over 60 mph.
Thunder storm one hour away w/ 40 lightning
strikes reported in 10 minutes.
- checked sewer and surface water flows for
visual signs of PermeOx, none seen

Draw a sketch showing the location of site activity.



2. What field personnel and equipment were used today?

Rob Sants

Field Vehicle

Digital Camera

3. What unusual events happened today?

Describe:

weather work canceled for health & safety reasons and to minimize damage to fairway

4. Was any property damaged?

YES

☒ NO

Explain:

5. What were the weather conditions at the site?

Time of Observation:

8:00

Precipitation:

none

Ground moisture:

moist to wet

Skies:

overcast

Air Temperature:

±45°

Wind (direction and speed):

30-40 mph, gusts 40+

6. Were there any visitors to the site?

☒ YES

NO

NAME - COMPANY - PURPOSE OF VISIT

ECSEI - subcontracted driller

7. Were any photographs taken by ERM personnel?

☒ YES

NO

Please detail location and description:

see attached

8. Additional comments (i.e. Additional work performed outside of ERM's initial scope of work):

none

Please attach additional pages and copies of field notes and chain of custody to this sheet, and send to file!

ERM
DAILY FIELD REPORT

DATE: 15 May 09 JOB NO: 0086335
TIME: (arrive) 7:30 (depart) 17:40

LOCATION: ANG Hancock Field - Syr, NY ACTIVITY: ISCO Pilot Test
FILED BY: RS SIGNATURE: Peter Lee

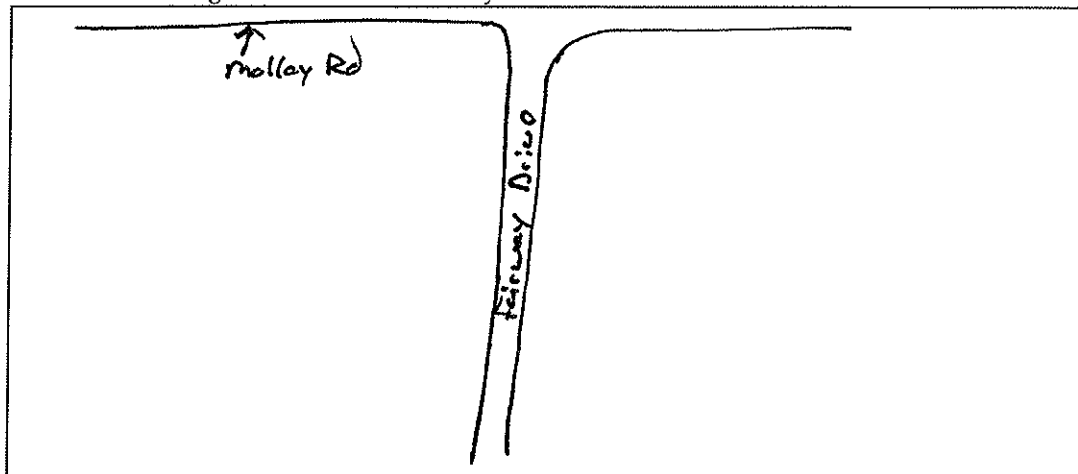
FORMS ATTACHED TO THIS REPORT:

- | | | |
|--|---|--|
| <input type="checkbox"/> Chain of Custody | <input type="checkbox"/> Field Sampling Reports | <input type="checkbox"/> Subcontractor Invoice |
| <input type="checkbox"/> Shipping Manifest | <input type="checkbox"/> Equipment Charge | <input type="checkbox"/> Injury Report |

1. Significant work accomplished today?

- Health and safety meeting
- Inject 500 lbs of PermoX in a slurry using Geoprobe and grant pump
- Health and Safety audit by Tim Pac
- Demobilize equipment
- Patch bare holes in CPI's parking lot from investigation in Spring of 09

Draw a sketch showing the location of site activity.



2. What field personnel and equipment were used today?

<u>Rob Sants</u>	<u>Field vehicles</u>
<u>Dave Myers</u>	<u>Digital Camera</u>
<u>Jan Fox</u>	<u>Hand tools</u>
<u>Tim Pac</u>	<u>PPE</u>

3. What unusual events happened today?

Describe: no

4. Was any property damaged?

YES

NO

Explain:

5. What were the weather conditions at the site?

Time of Observation: 7:30

Precipitation: no

Ground moisture: moist to wet

Skies: clear

Air Temperature: 50°F

Wind (direction and speed): calm

6. Were there any visitors to the site? YES

NO

NAME - COMPANY - PURPOSE OF VISIT

ECST - subcontracted driller

7. Were any photographs taken by ERM personnel?

YES

NO

Please detail location and description:

see attached

8. Additional comments (i.e. Additional work performed outside of ERM's initial scope of work):

none

Please attach additional pages and copies of field notes and chain of custody to this sheet, and send to file!

ERM
DAILY FIELD REPORT

DATE: 18 May 09 JOB NO: 0086335
TIME: (arrive) 13:00 (depart) 13:20

LOCATION: ANG Hancock Field - Syracuse, NY ACTIVITY: ISCO Pilot Test
FILED BY: RS SIGNATURE: [Signature]

FORMS ATTACHED TO THIS REPORT:

- | | | |
|--|---|--|
| <input type="checkbox"/> Chain of Custody | <input type="checkbox"/> Field Sampling Reports | <input type="checkbox"/> Subcontractor Invoice |
| <input type="checkbox"/> Shipping Manifest | <input type="checkbox"/> Equipment Charge | <input type="checkbox"/> Injury Report |

1. Significant work accomplished today?

- Health & safety meeting
- Photo document sample, creek & checked source. There were no visual signs of Permethex

Draw a sketch showing the location of site activity.

none

2. What field personnel and equipment were used today?

Rob Sonts
Todd Marsh

Field Vehicle
Digital Camera

3. What unusual events happened today?

Describe:

no

4. Was any property damaged?

YES

NO

Explain:

5. What were the weather conditions at the site?

Time of Observation:

13:00

Precipitation:

no

Ground moisture:

moist

Skies:

clear

Air Temperature:

±40°F

Wind (direction and speed):

0-15 mph out of NW

6. Were there any visitors to the site?

YES

NO

NAME - COMPANY - PURPOSE OF VISIT

7. Were any photographs taken by ERM personnel?

YES

NO

Please detail location and description:

see attached

8. Additional comments (i.e. Additional work performed outside of ERM's initial scope of work):

no

Please attach additional pages and copies of field notes and chain of custody to this sheet, and send to file!

ERM
DAILY FIELD REPORT

DATE: 29-30 July 09 JOB NO: 86335
TIME: (arrive) 8:30 (depart) 16:20
7:00 12:00

LOCATION: _____ ACTIVITY: _____
FILED BY: _____ SIGNATURE: [Signature]

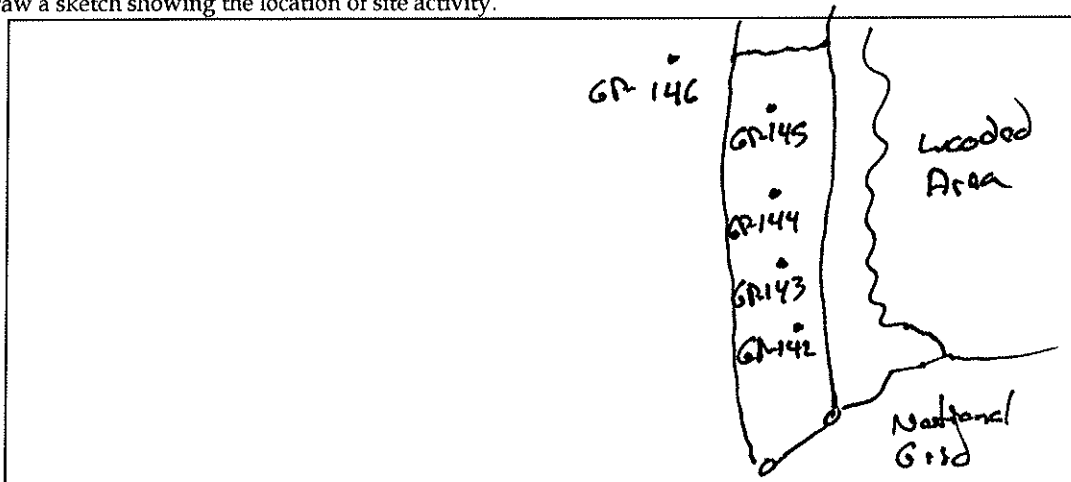
FORMS ATTACHED TO THIS REPORT:

- | | | |
|--|---|--|
| <input type="checkbox"/> Chain of Custody | <input type="checkbox"/> Field Sampling Reports | <input type="checkbox"/> Subcontractor Invoice |
| <input type="checkbox"/> Shipping Manifest | <input type="checkbox"/> Equipment Charge | <input type="checkbox"/> Injury Report |

1. Significant work accomplished today?

- Daily health and safety meeting.
- Completed 5 soil borings collect a grab groundwater sample from each location w/ SP-16 sampler.
- Installed two monitoring wells

Draw a sketch showing the location of site activity.



2. What field personnel and equipment were used today?

Rob Sanks
Dave Myers

field vehicles
PPE
PID
Camera

3. What unusual events happened today?

Describe:

no

4. Was any property damaged?

YES

NO

Explain:

5. What were the weather conditions at the site?

Time of Observation:

7-9

Precipitation:

no

Ground moisture:

Skies:

overcast

Air Temperature:

± 75°

Wind (direction and speed):

0-10 mph shifting

6. Were there any visitors to the site?

YES

NO

NAME - COMPANY - PURPOSE OF VISIT

ECSI - sub contracted driller

7. Were any photographs taken by ERM personnel?

YES

NO

Please detail location and description:

8. Additional comments (i.e. Additional work performed outside of ERM's initial scope of work):

see fieldnotes for additional comments

Please attach additional pages and copies of field notes and chain of custody to this sheet, and send to file!

ERM
DAILY FIELD REPORT

DATE: 8/5/09 JOB NO: 86335
TIME: (arrive) _____ (depart) _____

LOCATION: Fairway Drive ACTIVITY: GW Sampling
FILED BY: _____ SIGNATURE: [Signature]

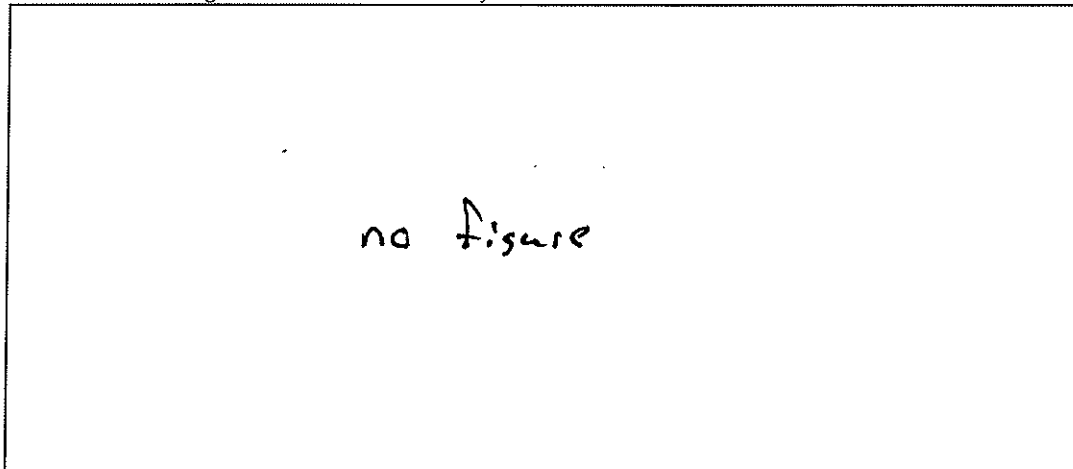
FORMS ATTACHED TO THIS REPORT:

- | | | |
|--|---|--|
| <input type="checkbox"/> Chain of Custody | <input type="checkbox"/> Field Sampling Reports | <input type="checkbox"/> Subcontractor Invoice |
| <input type="checkbox"/> Shipping Manifest | <input type="checkbox"/> Equipment Charge | <input type="checkbox"/> Injury Report |

1. Significant work accomplished today?

- Daily health & safety meeting
 - Complete round of liquid levels
 - Sample select monitoring wells using low flow sample methods. Sample collected for MNA & BEX.
- MW-112, MW-105, MW-107, MW-106, MW-111
MW-19, MW-113, MW-114

Draw a sketch showing the location of site activity.



2. What field personnel and equipment were used today?

Reb Sontz
Shannon Patch
GW sampling Equipment
PID
PPE
field vehicles

3. What unusual events happened today?

Describe:

4. Was any property damaged?

YES

NO

Explain:

5. What were the weather conditions at the site?

Time of Observation:

8:45

Precipitation:

no

Ground moisture:

dry

Skies:

overcast

Air Temperature:

± 75

Wind (direction and speed):

gusting 0-15 mph

6. Were there any visitors to the site?

YES

NO

NAME - COMPANY - PURPOSE OF VISIT

7. Were any photographs taken by ERM personnel?

YES

NO

Please detail location and description:

8. Additional comments (i.e. Additional work performed outside of ERM's initial scope of work):

see field notes for additional comments

Please attach additional pages and copies of field notes and chain of custody to this sheet, and send to file!

ERM
DAILY FIELD REPORT

DATE: 10/6/09 JOB NO: 86335
TIME: (arrive) 9:30 (depart) 12:00

LOCATION: Remtech ACTIVITY: Set soil sampling implants
FILED BY: RS SIGNATURE: [Signature]

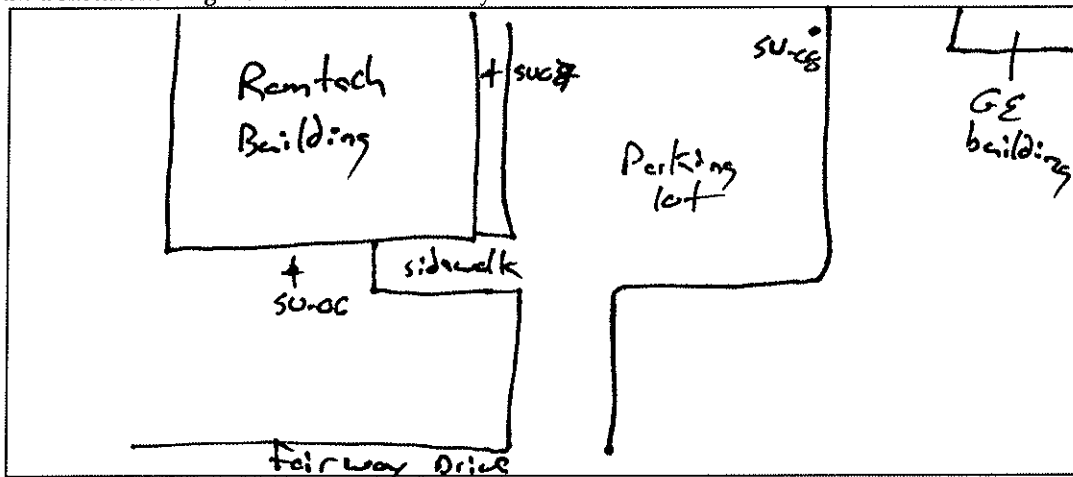
FORMS ATTACHED TO THIS REPORT:

- | | | |
|--|---|--|
| <input type="checkbox"/> Chain of Custody | <input type="checkbox"/> Field Sampling Reports | <input type="checkbox"/> Subcontractor Invoice |
| <input type="checkbox"/> Shipping Manifest | <input type="checkbox"/> Equipment Charge | <input type="checkbox"/> Injury Report |

1. Significant work accomplished today?

- ERM conducts health and safety meeting
- meets w/ Remtech to discuss work being completed over the week
- Set three 6" soil vapor sampling implant on Remtech's property

Draw a sketch showing the location of site activity.



2. What field personnel and equipment were used today?

Rob Sontz
Dave Myers

ESP
PID
Hand tools
Soil vapor sampling
equipment

3. What unusual events happened today?

Describe:

no

4. Was any property damaged?

YES

NO

Explain:

5. What were the weather conditions at the site?

Time of Observation:

9:30Precipitation: no

Ground moisture:

Skies:

overcastAir Temperature: +60

Wind (direction and speed):

6. Were there any visitors to the site? YES

NO

NAME - COMPANY - PURPOSE OF VISIT

7. Were any photographs taken by ERM personnel?

YES

NO

Please detail location and description:

see client file

8. Additional comments (i.e. Additional work performed outside of ERM's initial scope of work):

see field notes for additional comments

Please attach additional pages and copies of field notes and chain of custody to this sheet, and send to file!

ERM
DAILY FIELD REPORT

DATE: 10/6/09 JOB NO: 86335
TIME: (arrive) 8:55 (depart) 17:40

LOCATION: Hancock ANG - Syracuse

ACTIVITY: SV and GW Sampling

FILED BY: _____

SIGNATURE: _____

FORMS ATTACHED TO THIS REPORT:

☐ Chain of Custody

☐ Field Sampling Reports

☐ Subcontractor Invoice

☐ Shipping Manifest

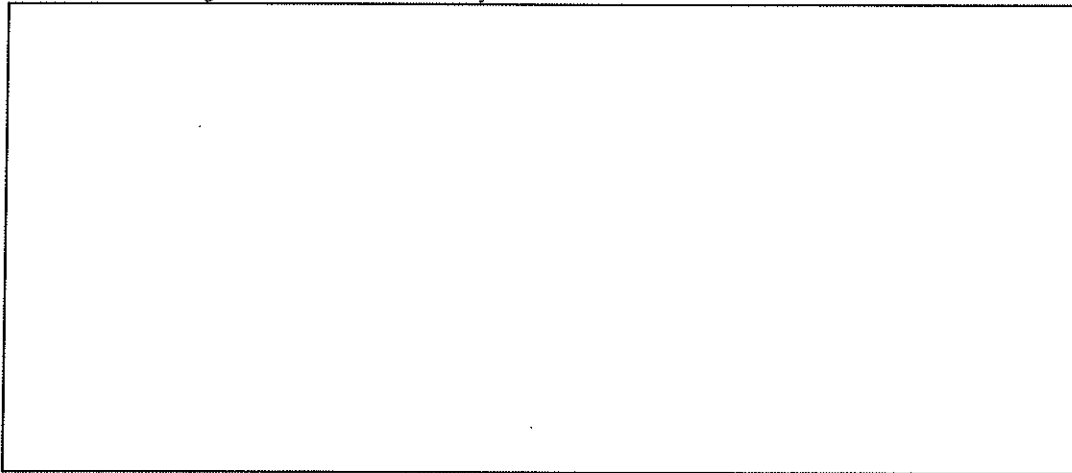
☐ Equipment Charge

☐ Injury Report

1. Significant work accomplished today?

- Health & safety meeting
- He test soil vapor sample location all pass, set up sorbent tubes and pumps for 2 hour sample period
- Send SV sample to lab via FedEx
- Low flow purge and sample all wells south of Malloy Road.
- Drop samples at laboratory

Draw a sketch showing the location of site activity.



2. What field personnel and equipment were used today?

Dave Myers

Rob Sents

Shannon Patch

Field Vehicles

PID

He detector

GW sampling equipment

PPE

SV sampling equipment

3. What unusual events happened today?

Describe:

no

4. Was any property damaged?

YES

NO

Explain:

5. What were the weather conditions at the site?

Time of Observation: 8:50

Precipitation: no

Ground moisture: —

Skies: Partly cloudy

Air Temperature: 75.5°F

Wind (direction and speed): —

6. Were there any visitors to the site? YES . NO

NAME - COMPANY - PURPOSE OF VISIT

Brent Lynch - ANG

7. Were any photographs taken by ERM personnel?

YES

NO

Please detail location and description:

in file

8. Additional comments (i.e. Additional work performed outside of ERMs initial scope of work):

see field notes for additional comments

Please attach additional pages and copies of field notes and chain of custody to this sheet, and send to file!

ERM
DAILY FIELD REPORT

DATE: 10/7/09 JOB NO: 86335
TIME: (arrive) 8:30 (depart) 15:00

LOCATION: Syracuse Hancock ANG ACTIVITY: GW Sampling
FILED BY: _____ SIGNATURE: [Signature]

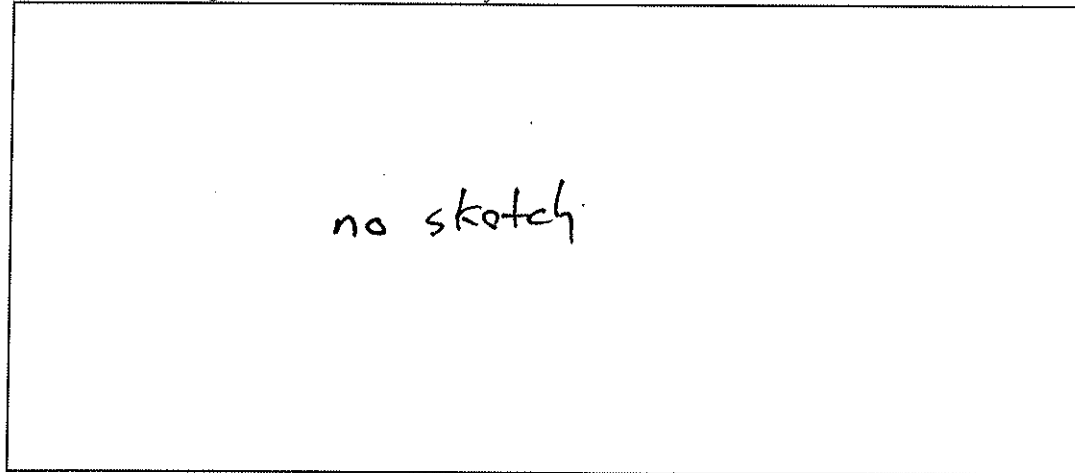
FORMS ATTACHED TO THIS REPORT:

- | | | |
|--|---|--|
| <input type="checkbox"/> Chain of Custody | <input type="checkbox"/> Field Sampling Reports | <input type="checkbox"/> Subcontractor Invoice |
| <input type="checkbox"/> Shipping Manifest | <input type="checkbox"/> Equipment Charge | <input type="checkbox"/> Injury Report |

1. Significant work accomplished today?

- Health and Safety meeting
- low flow purged and sampled 15 wells

Draw a sketch showing the location of site activity.



2. What field personnel and equipment were used today?

Rob Sents field vehicles
Shannon Patch GW sampling equipment

3. What unusual events happened today?

Describe:

no

4. Was any property damaged?

YES

NO

Explain:

5. What were the weather conditions at the site?

Time of Observation:

8:30

Precipitation:

light rain

Ground moisture:

moist

Skies:

overcast

Air Temperature:

±50

Wind (direction and speed):

0-10 mph out W-NW

6. Were there any visitors to the site?

YES

NO

NAME - COMPANY - PURPOSE OF VISIT

7. Were any photographs taken by ERM personnel?

YES

NO

Please detail location and description:

8. Additional comments (i.e. Additional work performed outside of ERM's initial scope of work):

see fieldnotes for additional comments

Please attach additional pages and copies of field notes and chain of custody to this sheet, and send to file!

ERM
DAILY FIELD REPORT

DATE: 10/26/09 JOB NO: 86335
TIME: (arrive) 8:20 (depart) 15:00

LOCATION: Hancock ANG base

ACTIVITY: GW Sampling

FILED BY: _____

SIGNATURE: Rob Sants

FORMS ATTACHED TO THIS REPORT:

- | | | |
|--|---|--|
| <input type="checkbox"/> Chain of Custody | <input type="checkbox"/> Field Sampling Reports | <input type="checkbox"/> Subcontractor Invoice |
| <input type="checkbox"/> Shipping Manifest | <input type="checkbox"/> Equipment Charge | <input type="checkbox"/> Injury Report |

1. Significant work accomplished today?

- Health & Safety meeting
- Complete ground water sampling event

Draw a sketch showing the location of site activity.

no sketch

2. What field personnel and equipment were used today?

Rob Sants
Shannon Patch

GW sampling equipment
field vehicles
PPC

3. What unusual events happened today?

Describe:

NO

4. Was any property damaged?

YES

NO

Explain:

5. What were the weather conditions at the site?

Time of Observation:

8:30

Precipitation:

no

Ground moisture:

Skies:

Partly cloudy

Air Temperature:

± 65°F

Wind (direction and speed):

6. Were there any visitors to the site? YES

NO

NAME - COMPANY - PURPOSE OF VISIT

7. Were any photographs taken by ERM personnel?

YES

NO

Please detail location and description:

8. Additional comments (i.e. Additional work performed outside of ERM's initial scope of work):

see fieldnotes for additional comments

Please attach additional pages and copies of field notes and chain of custody to this sheet, and send to file!

APPENDIX B

SOIL BORING LOGS



5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-123

BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
	570W					
	LOCATION:				SURFACE DESCRIPTION:	
0		3.9	0.0	NM	med brown silt and fine sand moist, with brick fragments	
1			0.0		↓ Dark brown silt and fine sand moist	
2			0.0		reddish brown silt and clay moist	
3			0.0		reddish brown fine sand, with silt, moist,	
4					↓ reddish brown fine sand and silt moist, firm	
5		5.0	0.0		↓	
6			0.0		Grayish brown silt and fine sand moist	
7			0.0		Grayish brown silt and fine sand with clay wet	
8			0.0		Grayish brown silt, with fine sand, saturated	
9			0.0		↓ Grayish brown fine sand and silt, saturated	
10					↓	



ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-123

BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		3.5	0.0	NM	Grayish brown fine sand and silt, saturated, very soft	
11			0.0			
			0.2			
12			0.2			
			0.0			
			0.0			
13			0.0		Grayish brown fine sand, with silt, saturated firm	
14						
15						Bore hole collapse due to saturated sand.
						SP-16 set at 14-18 ft
						Sample ID: ANG-GP-123
						Sample Time:
16						
17						
18						
19						
20						

Page 2 of 2

Signature: [Signature]

Date: 2/25/07



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-124

BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335		Date & Time Started:	
Drilling Company ECSI		Foreman Chuck Alan		Date & Time Completed:	
Drilling Equipment Geoprobe 66100T		Method Direct Push		Sampler(s) Macro-Core	
Bit Size(s) -		Core Barrel(s) -		Sampler Hammer Auto	
				Completion Depth Auto	
				Drop Auto	
				Rock Depth -	
				Geologist(s) -	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	ED/ PID (ppm)	Blow Counts		
LOCATION:					SURFACE DESCRIPTION:	
0		3.6	0.0	NM	Very dark reddish brown silt and fine sand, moist, soft	organic material mixed in wood chips and roots
1			0.0		Very dark grayish brown silt and fine sand, wet, soft	
			0.0			
			0.0			
2			0.0		Grayish brown, silt, with fine sand, moist	
			0.0		mod brown fine to med. sand, with silt, wet, firm	
3			0.0		reddish brown, silt and fine sand moist, firm	
4						
5		4.8	0.0		mod brown silt, with fine sand moist, firm	
6			0.0		Grayish brown silt, with clay firm moist	
7			0.0			
8			0.0		Grayish brown silt, with sand saturated, firm	
9			0.0		Grayish brown fine sand and silt, saturated	
10			0.0			

Page 1 of 2Signature: [Signature]Date: 2/25/05

**ERM**

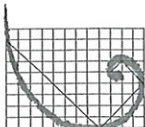
5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-124**BORING LOG**

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		1.5	0.0	NM	Grayish brown fine sand and silt saturated, very soft	
11			0.0			
			0.0			
12						
13						
14						
15		5.0	0.0		Grayish brown fine sand and silt, saturated, very soft	
16			0.0			SP-16 Set 16-20 ft logs Sample ID: ANG-GP-124 Sample Time: 12:30
17			0.0			
18			0.0			
19			0.0			
			0.0			
20			0.0		Med brown, med sand, saturated soft	

Page 2 of 2Signature: [Signature]Date: 2/25/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-125

BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335	Date & Time Started: 2/25/09	
Drilling Company ECSI		Foreman Chuck Alan	Sampler(s) Macro-Core	Sampler Hammer Auto
Drilling Equipment Geoprobe 66100T		Method Direct Push	Elevation & Datum -	Completion Depth 20'
Bit Size(s) -		Core Barrel(s) -	Geologist(s) -	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
LOCATION:					SURFACE DESCRIPTION:	
0					snow/brush	
	4.1	0.0	NM		very dark grayish brown silt and fine sand, w/ gravel wet, soft	
1			0.0		Dark grayish brown silt to coarse sand, w/ med gravel and brick fragments, wet, firm	
2			0.0		Dark grayish brown fine sand and silt, moist	organic material in fine sand
			0.0		Reddish brown fine sand wet firm	
3			0.0		Reddish brown fine sand and silt firm saturated	
			0.0		Grayish brown fine sand and silt, moist very firm	
4			0.0		Grayish brown silt, w/ clay firm, moist	
5	5.0	0.0			Grayish brown silt and fine sand, saturated, very firm	
6			0.0			
7			0.0			
8			0.0		Grayish brown fine sand and silt saturated, firm	
9			0.0			
10						

Page 1 of 2Signature: Rob L...Date: 2/25/09

**ERM**

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-125**BORING LOG**

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		4.6	0.0	NM	Grayish brown silt and fine sand, firm, saturated	
11			0.0			
12			0.0		Grayish brown silt and fine sand, very soft, saturated	
13			0.0			
14			0.0			
15		3.0	0.0		Grayish brown silt, with fine sand, saturated, very soft	
16			0.0			
17			0.0			SPIC 18-22' Sample ID: ANG-GP-125 Sample Time: 14105
18			0.0		med brown, med sand, with silt saturated firm	
19						
20						

Page 2 of 2Signature: [Signature]

Date:

2/25/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-126

BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335	Date & Time Started: 2/25/09	
Drilling Company ECST		Foreman Chuck Alan	Sampler(s) Macro-Core	Sampler Hammer Auto
Drilling Equipment Geoprobe 6610DT		Method Direct Push	Elevation & Datum -	Completion Depth 20'
Bit Size(s) -		Core Barrel(s) -	Geologist(s) -	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
LOCATION:					SURFACE DESCRIPTION:	
0		3.8	0.0	NM	very dark gray fine sand and silt, saturated, soft	organic matter mixed in
1			0.0		Reddish brown fine sand, with silt, saturated	
2			0.0		↓ Reddish brown silt and fine sand, saturated, very firm	
3			0.0		Grayish brown silt, with clay, wet, firm	
4					↓	
5		5.0	0.0		Grayish brown silt, with fine sand, saturated, soft	
6			0.0		↓	
7			0.0		↓ Grayish brown fine sand and silt, saturated firm	
8			0.1		↓	
			0.0			
			0.1			
9			0.3		↓	
			0.2		Grayish brown fine sand and silt, with med sand, saturated	
10						

Page 1 of 2Signature: [Signature]Date: 2/25/09

**ERM**

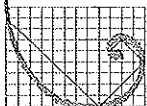
5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

G-P-12C**BORING LOG**

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		3.5	0.0	NM	Grayish brown silt and fine sand, saturated, loose	
11			0.0			
12			0.1			
13			0.0			
14			0.0			
15		2.0	0.3		Grayish brown, med sand, with silt, saturated firm	
16			0.2			
			0.7			
17			0.1		Grayish brown, fine to med sand, with silt, saturated firm	Ground water sample collected 18-22ft Sample ID: ANG-G-P-12C Time: 15:05
18						
19						
20						

Page 2 of 2Signature: *[Signature]*Date: 2/25/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

G-P-127

BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335	Date & Time Started: 2/26/09 8:13 → 9:30	
Drilling Company ECSI		Foreman Chuck Alan	Sampler(s) Macro-Core	Sampler Hammer Auto
Drilling Equipment Geoprobe 6610DT		Method Direct Push	Elevation & Datum —	Completion Depth 20
Bit Size(s) —		Core Barrel(s) —	Geologist(s) —	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
LOCATION:					SURFACE DESCRIPTION:	
0					snow/ grass	
	3.8	0.0	NM		very dark grayish brown silt, w/ fine sand, soft, wet	organic material mixed thruout
1		0.0			Gray silt and clay, wet, soft	
		0.0			reddish brown fine sand and silt, wet, firm	
2		0.0			reddish brown silt and fine sand wet, firm.	
3		0.0			Grayish brown silt and fine sand, with clay, wet, firm	
4						
5	3.5	0.0			Grayish brown silt, with clay, trace med sand, saturated, firm	(70, 25, 5)
6		0.0			Grayish brown silt and fine sand, saturated firm	(70/30)
7		0.0			Grayish brown fine sand and silt, saturated firm	(70/30)
8		0.0				(
9						
10						

Page 1 of 2Signature: Rob SDate: 2/26/09

**ERM**

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-127**BORING LOG**

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		5.0	0.0	NM	Grayish brown silt and fine sand, saturated, soft	(70/30)
11			0.0			(60/40)
12			0.0		Grayish brown fine sand and silt, very soft, saturated	(60/40)
13			0.0		Grayish brown fine sand and silt, trace med. sand	(60/35/5)
14			0.0			
15		2.2	0.0		Dark grayish brown fine to med sand, w/ silt saturated firm Dark grayish brown med. sand w/ silt, saturated, firm	Head space on bagged sample. 0.0 ppm
16						SP-16 sat at 17-21ft Sample ID: ANG-GP-127 Sample Time: 9:25
17						
18						
19						
20						

Page 2 of 2Signature: Rob [Signature]Date: 2/26/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-128

BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335		Date & Time Started: 2/26/09 9:45	
Drilling Company ECSI		Foreman Chuck Alan		Sampler(s) Macro-Core	
Drilling Equipment Geoprobe 6610DT		Method Direct Push		Sampler Hammer Auto	
Bit Size(s) -		Core Barrel(s) -		Completion Depth 20	
				Drop Auto	
				Rock Depth -	
				Geologist(s) -	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
	LOCATION:				SURFACE DESCRIPTION:	
0					snow/grass Very dark gray silt, w/ fine sand Wet, Firm	organic material ↓
1	4.2	0.0	NM		black silt and fine sand, moist firm	
		0.0			Grayish brown silt and clay, moist firm	
2					mod brown, silt, with fine sand, wet, firm	(80/20)
3					Reddish brown fine sand, w/ silt wet, firm	(80/20)
4					Reddish brown fine sand and silt saturated, firm	(70/30)
					Grayish brown silt and fine sand w/ clay	(60/30/10)
5					Grayish brown silt, w/ clay saturated, soft	(70/20/10)
6			0.0		Grayish brown silt and fine sand, with clay, soft, saturated	(65/30/5)
7			0.0		Grayish brown fine sand and silt, saturated firm	(60/40)
8			0.0			
9						
10						

Page 1 of 2Signature: [Signature]

Date: _____



ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-128

BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
10	4.4	0.0	NM		Grayish brown silt and finesand, saturated, soft	
11			0.0			
12			0.0		Grayish brown silt and fine sand, very soft, saturated	
13			0.0		Grayish brown fine sand and silt, very soft, saturated	
14			0.0			
15	5.0	0.0			Grayish brown silt and fine sand, very soft, saturated	(70/30)
16			0.0			SD-16 set at 17-21 ft
17			0.0			Sample ID: ANG-GP-128
18			0.0		Grayish brown fine sand and silt, firm, saturated	Sample Time:
19			0.0		Dark grayish brown finesand and med sand, with silt, firm	(60/40)
20			0.0		Dark grayish brown med sand to coarse sand, w/ silt, firm	(60/30/10)
			0.0		Reddish brown finesand and silt, w/ med sand, saturated firm	(70/20/10)
			0.0			(60/25/15)
			0.0			mod. subcomp gravel in nose

Page 2 of 2

Signature: [Signature]

Date: 2



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-129

BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335		Date & Time Started: 2/26/09 11:50	
Drilling Company ECSI		Foreman Chuck Alan		Sampler(s) Macro-Case	
Drilling Equipment Geoprobe 6610DT		Method Direct Push		Sampler Hammer Auto	
Bit Size(s) -		Core Barrel(s) -		Completion Depth 19	
				Drop Auto	
				Elevation & Datum -	
				Rock Depth -	
				Geologist(s) -	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
0	LOCATION:				SURFACE DESCRIPTION:	
0	3.5	0.0	NM		snow/woodland mulch very dark greyish brown silt, w/ fine sand, wet, firm	organic rich
1						
2					Reddish brown fine sand and silt very firm, wet	(70/30)
3					Reddish brown sand, w/ silt, firm, wet	(85/15)
4					Greyish brown fine sand and silt, very firm, wet	
5	2.4	0.0			Greyish brown fine sand and silt, saturated firm	(60/40)
6		0.0			Greyish brown silt and fine sand, w/ clay, saturated firm	(60/30/10)
7		0.0			Greyish brown fine sand and silt, saturated firm	(70/30)
8		0.0				
9						
10						

Page 1 of 2

Signature:

Date: 2/26/09

**ERM**

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-129**BORING LOG**

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		3.2	0.0	NM	Grayish brown silt and fine sand, saturated, very soft	(70/30)
11			0.0			
12			0.0		Grayish brown fine sand and silt, very soft	(60/40)
13			0.0			(70/30)
14						(80/20) firm
15		4.0			Grayish brown fine sand and silt, saturated, very soft	(50/50)
16						
17						(60/30)
18						(70/20)
19					dark grayish brown, med sand, w/ silt Refusal at 19 ft w/ Macro core	(80/20) SP-16 set at 21-17 ft Sample ID: ANG-GP-129 Sample Time: Driller notes collapse 19 below
20						

Page 2 of 2Signature: [Signature]

Date:

2/26/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-130

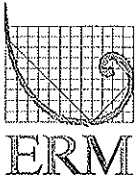
BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335		Date & Time Started:	
Drilling Company ECSE		Foreman Chuck Alan		Date & Time Completed:	
Drilling Equipment Geoprobe 6610DT		Method Direct Push		Sampler(s) Macro Case	Sampler Hammer Auto
Bit Size(s) -		Core Barrel(s) -		Elevation & Datum -	Completion Depth 20
				Drop Auto	
				Rock Depth -	
				Geologist(s)	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
	LOCATION:				SURFACE DESCRIPTION:	
0					snow/woodland mulch	
		3.8	0.0	NM	very dark greyish brown, silt with fine sand, wet	(90/10) organic material
1			0.0		dark greyish brown silt and fine sand, wet	(75/25) ↓
2			0.0		med. brown silt, with clay and med. sand, wet, firm	(70/15/15)
			0.0		black silt and fine sand w/ organic material	
3			0.0		Gray silt and clay, with fine sand moist, firm, plastic	(70/25/5)
			0.0		med brown to reddish brown, fine sand and silt, wet, firm	
4					Reddish brown fine sand, with silt, wet, firm	(80/20)
5		5.0	0.0		Grayish brown fine to med sand with silt, saturated	(80/20)
6			0.0			
7			0.0			(70/30)
8			0.0		Grayish brown silt and clay firm	
9			0.0		Grayish brown silt, with clay and fine sand	(70/15/15)
			0.0		Grayish brown silt and fine sand w/ clay very firm	
10			0.0		Grayish brown silt and fine sand	(60/40)

Page 1 of 2

Signature: Paulo LuisDate: 2/26/09

**ERM**

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-130**BORING LOG**

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10	4.2	0.0	NM		med brown fine sand, with silt, saturated, firm	(85/15)
11			0.0			
12			0.0			
13			0.0			
14			0.0		Grayish brown fine sand and silt, saturated firm	(60/40)
15	5.0	0.0			Grayish brown fine sand, with silt, saturated firm	(85/15)
16			0.0			
17			0.0			
18			0.0			SP-16 set at 18-22 ft Sample ID: ANG-GP-130 Sample Time: very hard 20-22 ft
19			0.0		Grayish brown fine sand and silt, very firm, saturated Dark grayish brown, med. sand with fine sand and silt, saturated firm	(60/40) (80/10/10)
20						

Page 2 of 2Signature: RobDate: 2/26/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-131

BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335	Date & Time Started: 2/26/09 16:20-17:10	
Drilling Company ECSI		Foreman Chuck Alan	Sampler(s) Macro-Core	Sampler Hammer Auto
Drilling Equipment Geoprobe 66100T		Method Direct Push	Elevation & Datum ---	Completion Depth 20
Bit Size(s) ---		Core Barrel(s) ---	Geologist(s) ---	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
	LOCATION:				SURFACE DESCRIPTION:	
0		2.7	0.0	NM	Very dark grayish brown silt and fine sand, wet, firm	org. organic material
1			0.0		med brown silt and fine sand wet, firm	(60/30/10)
			0.0		very dark brown silt and fine sand, with organic material moist	(70/30)
2			0.0		Gray silt and clay, moist, plastic	
			0.0		Reddish brown fine sand, with silt, wet, firm.	
3						
4						
5		3.5	0.0		Grayish brown fine sand and silt, saturated	
6			0.0			
7			0.0		Grayish brown silt, with clay and fine sand	(60/25/15)
8			0.0			
9						
10						

Page 1 of 2Signature: Paul S.Date: 2/26/09



ERM
5788 Widewaters Parkway, Dewitt, New York 13214
BORING LOG

Boring Number

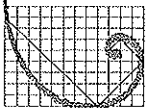
GP-131

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		4.1	0.0	NM	Grayish brown, fine sand and silt, saturated, firm	(60/40)
11			0.0			
12			0.0			
13			0.0			(70/30)
14			0.0			
15		3.8	0.0		Grayish brown fine sand and silt, saturated, firm	
16			0.0			
17			0.0		Grayish brown silt and fine sand with clay, saturated, firm Grayish brown fine sand and silt saturated	(60/25/15) (70/30)
18			0.0		Grayish silt and fine sand, very firm, saturated Dark Grayish brown med sand with fine sand and silt	(80/10/10)
19						
20						

Page 2 of 2

Signature: [Signature]

Date: 2/26/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GA132

BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335		Date & Time Started:	
Drilling Company ECSI		Foreman Chuck Alan		Date & Time Completed:	
Drilling Equipment Gooprobe 6610DT		Method Direct Push		Sampler Hammer Auto	
Bit Size(s) -		Core Barrel(s) -		Completion Depth 18	
				Drop Auto	
				Elevation & Datum -	
				Rock Depth -	
				Geologist(s)	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
LOCATION:					SURFACE DESCRIPTION:	
0					snow/woodland mulch	
	3.8	0.0	NM		med brown silt, w/ fine sand	organic material/
1					wet, firm	(70/30)
		0.0			Grayish brown silt and fine sand	(60/40)
2			0.0			
			0.0		Grayish brown silt and fine sand w/ clay	(70/25/5)
3			0.0		Gray silt and clay, with fine sand	
		0.0			Reddish brown fine sand with silt, wet firm	(80/20)
4						
5	5.0	0.0				Saturated
6		0.0				
7					Grayish brown med and fine sand, with silt, saturated firm	(50/35/15)
8						
9					Grayish brown silt, with clay and fine sand saturated	(70/20/10)
10						

Page 1 of 2Signature: Paul J.Date: 2/26/09



ERM
5788 Widewaters Parkway, Dewitt, New York 13214
BORING LOG

Boring Number

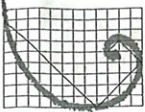
GP-132

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		5.0	0.0	NM	Grayish brown silt and fine sand, saturated soft	
11			0.0			
12			0.0		Grayish brown fine sand and silt, saturated firm Dark grayish brown med and fine sand, with silt, firm saturated	(60/40) (40/30/10)
13			0.0			
14			0.0			
15		0.2			Same as above	SP-16 set 14-18ft Sample ID: ANG-GP-32 Sample Time:
16						note sample washed out of Macro Core
17						
18						
19						
20						

Page 2 of 2

Signature: Peter J. [Signature]

Date: 2/26/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-133

BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335		Date & Time Started:	
Drilling Company ECSI		Foreman Chuck Alan		Date & Time Completed:	
Drilling Equipment Geoprobe 66100T		Method Direct Push		Sampler(s) Macro-Core	Sampler Hammer Auto
Bit Size(s) -		Core Barrel(s) -		Elevation & Datum -	Completion Depth 24
				Geologist(s)	Drop Auto
					Rock Depth -

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
LOCATION:					SURFACE DESCRIPTION:	
0		2.8	0.0	NM	mod brown to greyish brown silt and fine sand, moist	(60/40)
1			0.0		Greyish brown fine sand and silt, moist firm	
2			0.0		Light greyish brown fine sand w/ silt	(90/10)
3			0.0		Reddish brown fine sand, with silt, wet	(80/20)
4						
5		3.2	0.0		Reddish brown fine sand and silt, saturated, firm	(70/30)
6			0.0			(
7			0.0		^(RS) Reddish Greyish brown fine to med. sand, with silt saturated	(80/20)
8			0.0			
9						
10						

Page 1 of 2

Signature: Rob RucDate: 2/27/09

**ERM**

5788 Widewaters Parkway, Dewitt, New York 13214

BORING LOG

Boring Number

QP-133

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		2.5	0.0	NM	Grayish brown fine sand, with silt and med sand, saturated	(70/15/15)
11			0.0			
12			0.0		Grayish brown silt with clay and fine sand	(60/25/15)
13						stone in nose subround med gravel
14						
15		5.0			Grayish brown fine sand and silt, soft,	(60/40)
16						
17						(70/30)
18						(75/25)
19					Reddish brown fine sand, w/ silt Very firm	(90/10)
20					DK grayish brown med sand w/ silt	(80/20)

Page 2 of 3

Signature:

2/27/09

Date:

RB

**ERM**

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-133**BORING LOG**

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
20		5.0	0.0		greyish brown med sand, with silt and fine sand	(70/15/15)
21			0.0			
22			0.0			
23			0.0			
24			0.0			
			0.0		reddish brown, fine sand and silt, w/ small to med s.c. round gravel very very firm	
25						
26						
27						
28						
29						
30						

Page

3

of

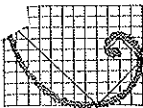
3

Signature:

Robert J. S.

Date:

2/27/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-134

BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335		Date & Time Started:	
Drilling Company ECSI		Foreman Chuck Alan		Date & Time Completed:	
Drilling Equipment Geoprobe 6610DT		Method Direct Push		Sampler(s) Macro-Core	Sampler Hammer Auto
Bit Size(s) -		Core Barrel(s) -		Elevation & Datum -	Completion Depth 20
				Geologist(s) -	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
LOCATION:					SURFACE DESCRIPTION:	
0					snow/woodland mulch/debris	
	3.5	0.0	NM		Dark brown silt, with fine sand moist, firm	organics
1					Reddish brown silt, with clay and fine sand, very firm	
		0.0			dark grayish brown silt, with fine sand, wet, firm	(60/40)
2					↓ Dark brown silt and fine sand wet firm	organics (70/15/15)
		0.0			Grayish brown silt and fine sand	(70/30)
3					Reddish brown fine sand, with silt, saturated, firm	(80/20)
4						
5						
	5.0	0.0				
6						
		0.0			↓ Grayish brown fine to med sand with silt	(80/20)
7						
		0.0				
8					↓ Dark grayish brown fine and med sand, with silt, saturated	
		0.0				
9					↓ Grayish brown fine sand and silt, saturated	
		0.0				
10						
		0.0				

Page 1 of 2

Signature:

Date: 2/27/05



ERM
5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-134

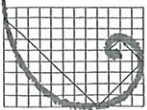
BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		2.8	0.0	NM	Dark greyish brown fine to med sand, with silt	(20/20)
11			0.0			
12			0.0			
13			0.0			
14						
15		5.0			Greyish brown fine sand and silt saturated	(60/40)
16					Dark Greyish brown fine to med sand, with silt, saturated fine	(80/20)
17						
18						
19					Greyish brown fine sand and silt with med sand, saturated	(50/40/10)
20						

Page 2 of 2

Signature: [Signature]

Date: [Signature]



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-135

BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335	Date & Time Started: 2/27/09 7:45-7	
Drilling Company ECSI		Foreman Chuck Alan	Sampler(s) Macro-Core	Sampler Hammer Auto
Drilling Equipment Geoprobe 6610DT		Method Direct Push	Elevation & Datum -	Completion Depth 20
Bit Size(s) -		Core Barrel(s) -	Geologist(s) -	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
0	LOCATION:				SURFACE DESCRIPTION:	
0		4.1		NM	8 in / Woodland mulch debris med brown silt and fine sand, soft wet,	organic materials within
1					Dark greyish brown fine sand and silt, wet, firm	(70/30)
2						some med subangular gravel
3					Gray silt and fine sand, very firm moist	(50/50)
4					Reddish brown fine sand and silt saturated, firm	(30/40)
5		5.0			Dark greyish brown fine sand and silt, med sand saturated	(60/30/10)
6						
7						
8					Greyish brown silt, w/ fine sand firm, saturated	(60/40)
9					Dark greyish brown fine sand and silt, saturated, firm	
10					Greyish brown silt and fine sand saturated, firm	

Page 1 of 2Signature: [Signature]Date: 2/27/09



ERM
5788 Widewaters Parkway, Dewitt, New York 13214
BORING LOG

Boring Number
GP-135

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
10		5.0	0.0	NM	Grayish brown fine sand and silt, firm saturated	(60/40)
11			0.0		Dark grayish brown fine to med sand, with silt, saturated	(70/30)
12			0.0			
13			0.0		Same as above	
14			0.0			
15		5.0	0.0		Same as above	
16			0.0		Grayish brown fine sand and silt saturated firm	(60/40)
17			0.0		Dark grayish brown fine to med sand, with silt, saturated	(70/30)
18			0.0			SP16 sat 16-20ft Sample ID: ANG-GP-135 Sample Time: 8440
19			0.0		Same as above	
20			0.0			

Page 2 of 2

Signature: [Signature]

Date: 2/27/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

ANG GP - 136

BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335		Date & Time Started: 12:05 2/27/09	
Drilling Company ECSI		Foreman Chuck Alan		Date & Time Completed: 12:55 2/27/09	
Drilling Equipment Geoprobe 6610DT		Method Direct Push		Sampler(s) Macro-Core	
Bit Size(s) -		Core Barrel(s) -		Sampler Hammer Auto	
				Drop Auto	
				Completion Depth 20	
				Rock Depth -	
				Geologist(s) Dave Myers	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
	LOCATION:				SURFACE DESCRIPTION:	
0					Asphalt 3"	
		3.1	0.0	NM	Gravel fill - Asphalt subgrade to ~ 9"	
1			0.0		Med brown to light brown silt and fine sand, moist, firm	
2			0.0		Light brown to light gray fine sand with silt, moist	
3			0.0		to wet firm	
4						
5		2.2	0.0			
6			0.0		Light brown to gray fine sand with silt, wet	
7			0.0			
8						
9						
10					Lt gray, silt with fine sand, wet	

Page 1 of 2

Signature: Dave W. MyersDate: 2/27/09

**ERM**

5788 Widewaters Parkway, Dewitt, New York 13214

BORING LOG

Boring Number

ANG-GP-136

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
10		3.8	0.0	nm	Light gray silt w. fine sand, wet	
11			0.0			
12			0.0			
13			0.0			
14					Reddish brown fine to med sand, with silt, scattered gravel, wet, dense	
15		5.0*				
16						* only tip of sample retrieved - barrel packed - had to be washed out
17						
18						
19						
20			0.0			

Page 2 of 2

Signature:

David W. Myers

Date:

2/27/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

ANG-GP-137

BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335	Date & Time Started: 13:10 2/27/09
Drilling Company ECSI		Foreman Chuck Alan	Date & Time Completed: 13:50 2/27/09
Drilling Equipment Geoprobe 66100T		Method Direct Push	Sampler(s) Macro-Core
Bit Size(s) -		Core Barrel(s) -	Sampler Hammer Auto
		Elevation & Datum -	Drop Auto
		Completion Depth 15	Rock Depth -
		Geologist(s) David W. Myers	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
	LOCATION:				SURFACE DESCRIPTION:	
0					Asphalt - 3"	
	2.2	0.0	NM		Base Course - Gravel to 9"	
1					Fill - Lt gray silt with fine sand, moist	
		0.0				
2						
		0.0			Fill - black, organic, silt with gravel + scattered debris, moist to wet	
3						
4						
5						
	4.8	0.0				
6					Lt brown silt with fine sand, organic, wet	
		0.0				
7					Lt gray fine sand with silt, wet, firm	
		0.0				
8						
		0.0				
9					Lt brown silt with fine sand, wet, firm	
		0.0				
10						

Page 1 of 2Signature: David W. MyersDate: 2/27/09



ERM
5788 Widewaters Parkway, Dewitt, New York 13214
BORING LOG

Boring Number
ANG-GP-137

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		4.5	0.0	NM	Lt brown ^{to Lt gray} sand with fine silt, wet, firm	
11			0.0		Lt gray silt with fine sand, wet, firm	
12			0.0			
13			0.0			
14			0.0		Lt brown fine sand, some silt, wet, dense	
15						will discret sample adjacent next event due to hydraulic ^{drum} pressures hydrostatic
16						
17						
18						
19						
20						

Page 2 of 2

Signature: David W. Myers

Date: 2/27/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

ANG-GP-138

BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335	Date & Time Started: 14:03
Drilling Company ECSI		Foreman Chuck Alan	Date & Time Completed:
Drilling Equipment Geoprobe 66100T		Method Direct Push	Sampler(s) Macro-Core
Bit Size(s) -		Core Barrel(s) -	Sampler Hammer Auto
			Drop Auto
			Completion Depth 15
			Rock Depth -
			Geologist(s) David W. Myers

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
	LOCATION:				SURFACE DESCRIPTION:	
0					Asphalt 3"	
		2.8	0.0	NM	Base Course 6"	
1			0.0		Fill - Black silt with fine sand, scattered gravel, moist	
2			0.0		Gray, silt, some sand moist, firm	
3			0.0			
4					Lt brown silt, some sand, wet, firm	
5		3.9	0.0			
6			0.0		Lt. brown silt, some sand, wet, firm	
7			0.0			
8			0.0			
9						
10						

Page 1 of 2Signature: David W. MyersDate: 2/27/09

**ERM**

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

ANG-GP-138**BORING LOG**

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		4.1	0.0	nm	Lt brown silt, some sand	
11			0.0		wet, firm	
12			0.0			
13			0.0		Lt gray fine sand, some	
14			0.0		silt, wet, dense	
15						discreet sample to south
16						Hydrostatic pressure unable to get sample deeper
17						
18						
19						
20						

Page 2 of 2Signature: Daniel W. MyersDate: 2/27/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-139

BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335	Date & Time Started: 3/3/09 9:40 →	
Drilling Company ECSI		Foreman Chuck Alan	Sampler(s) Macro Case	Sampler Hammer Auto
Drilling Equipment Geoprobe 66100T		Method Direct Push	Elevation & Datum ---	Completion Depth 19
Bit Size(s) ---		Core Barrel(s) ---	Geologist(s) ---	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
	LOCATION:				SURFACE DESCRIPTION:	
0					Asphalt	
		2.5	0.0	NM	mod brown sm to med gravel and silt to med sand, saturated	asphalt sub-base gravel
1			0.0		Grayish brown fine sand and silt saturated firm	(60/40)
					Grayish brown silt and fine sand saturated firm	(70/30)
2			0.0			
			0.0			
3						
4						
5		3.2	0.0		Same as above	(70/30)
6			0.0			
						(60/40)
7			0.0		Same as above	
			0.0			
8			0.0		Grayish brown fine sand and silt, saturated firm	(60/40)
9						
10						

Page 1 of 2

Signature:

Date: 3/3/09

**ERM**

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

G-P-139**BORING LOG**

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		0.2	0.0	NM	Greyish brown fine sand and silt, saturated very loose.	
11						
12						
13						
14						
15		1.5	0.0		Reddish brown fine sand and silt with coarse sand to sm. gravel saturated	(G013010)
16			0.0		Reddish brown silt and fine sand w/ coarse sand to sm. subrounded gravel, very firm, moist	
17			0.0			
18						
19					refusal at 19ft	started getting hard around 18.5ft bss. which is where till is located
20						

Page 2 of 2Signature: Rob LeeDate: 3/3/09



5788 Widewaters Parkway, Dewitt, New York 13214

GP-140

BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335		Date & Time Started:	
Drilling Company ECSI		Foreman Chuck Alan		Date & Time Completed:	
Drilling Equipment Geoprobe 6610DT		Method Direct Push		Sampler(s) Macro-Core	
Bit Size(s) -		Core Barrel(s) -		Sampler Hammer Auto	
				Drop Auto	
				Elevation & Datum -	
				Completion Depth 34	
				Rock Depth -	
				Geologist(s)	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
LOCATION:					SURFACE DESCRIPTION:	
0					asphalt Greyish brown silt to sand and small gravel, saturated, firm	(5/50) Parking lot sub-base
1		1.5	0.0	NM	Greyish brown, fine sand and silt, saturated, firm	(70/30)
2			0.0			
3			0.0			
4						
5		2.9	0.0		Greyish brown fine sand and silt, saturated, firm	(70/30)
6			0.0			
7			0.0			
8			0.0			
9						
10						

Page 1 of

Signature: _____

Date:

**ERM**

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-140**BORING LOG**

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		3.5	0.0	NM	med brown, fine to med sand, saturated, firm, w/ silt	(80/20)
11			0.0			
12			0.0			
13			0.0		Dark grayish brown fine to med sand, with silt, saturated, firm	(80/20)
14						
15		4.5	0.0		Same as above	
16			0.0			
17			0.0			
18			0.0		Same as above	
19			0.0			
20						

Page 2 of 2Signature: Rob [Signature]

Date:

3/3/09



ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-140

BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts		
20		5.0	0.0		Grayish brown fine to med sand with silt, saturated, firm	(80/20)
			0.0		Grayish brown silt, with clay	(80/20)
21			0.0		saturated, firm	
			0.0		Grayish brown silt, with fine sand, saturated	
22			0.0			
			0.0		Grayish brown silt to fine sand w/ small subround gravel	(70/30)
23			0.0		Reddish brown silt to fine sand with coarse sand to med subround gravel, very firm, moist	T:11
24			0.0			
25						
26						
27						
28						
29						
30						

Page ____ of ____

Signature: _____ Date: _____



ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-141

ERM

BORING LOG

Project Name & Location ANG Hancock-SRI-PT		Project Number 0086335		Date & Time Started: 3/3/09 13:40 → 15:25	
Drilling Company ECSI		Foreman Chuck Alan		Sampler(s) Macro-Core	
Drilling Equipment Geoprobe 66100T		Method Direct Push		Sampler Hammer Auto	
Bit Size(s) —		Core Barrel(s) —		Completion Depth 25'	
				Drop Auto	
				Rock Depth —	
				Geologist(s) —	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
LOCATION:					SURFACE DESCRIPTION:	
0	4.5	0.0	NM		DK brown, silt, with fine sand, wet soft	(80/20)
1					med brown fine sand and silt moist, firm	(60/40)
		0.0			Reddish brown fine sand and silt	(70/30)
2		0.0				
3		0.0				
4		0.0			Very dark brown silt and fine sand, moist	
		0.0			Reddish brown fine sand and silt moist firm.	
5	4.2	0.0			Same as above	
6		0.0			Grayish brown silt and clay wet, firm, plastic	(70/30)
7		0.0			Grayish brown silt, firm wet	
8		0.0			Grayish brown silt, with fine sand, saturated firm	
9		0.0				
10						

Page 1 of 3

Signature:

Date: 3/3/09

**ERM**

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-141**BORING LOG**

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		5.0	0.0	NM	Grayish brown silt and fine sand, saturated, soft	(60/40)
11			0.0		Grayish brown fine sand and silt, saturated, soft	(60/40)
			0.0			
12			0.0			SPIC sat 13-17ft ⁶⁵³ Sample ID: ANG-GP-141 Time: 15:20
			0.0			
13			0.0			
			0.0			
14			0.0		Same as above	(70/30)
			0.0			
15		3.5	0.0		Grayish brown fine sand, with silt, saturated, firm	(80/20)
16			0.0			
			0.0			
17			0.0		Roddyish brown fine sand and silt, with small subround gravel, saturated soft	(90/30/20)
			0.0			
18			0.0			
19						
20						

Page 2 of 3Signature: RobDate: 3/3/09



ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-141

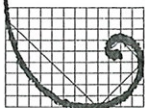
BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
20		5.0	0.0	NM	Reddish brown fine sand and silt saturated, soft	
21			0.0			
22			0.0		Reddish brown fine sand and silt w/ coarse sand to small subround gravel	
23			0.0		Reddish brown silt to fine sand and small gravel, saturated, soft	(60/40)
24			0.0		Reddish brown fine sand and silt w/ coarse sand to small subround gravel	(60/30/10)
25			0.0		Reddish brown silt to sand, with coarse sand to small subround gravel	Till at 24.8'
26						
27						
28						
29						
30						

Page 3 of 3

Signature: *[Signature]*

Date: 3/3/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-142

BORING LOG

Project Name & Location ANG Hancock - SRI-PT		Project Number 0086335	Date & Time Started: 7/29/09 → 7/29/09	
Drilling Company ECSI		Foreman Chuck Alan	Sampler(s) Macro Core	Sampler Hammer Auto
Drilling Equipment Geoprobe 6610DT		Method Direct Push	Elevation & Datum -	Completion Depth 25'
Bit Size(s)		Core Barrel(s)	Geologist(s) R. Sents	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
	LOCATION:				SURFACE DESCRIPTION:	
0		4.0	0.0	NM	Gravel road light gray fine sand to small subangular gravel, moist	road base
1			0.0		very dark brown silt to coarse sand, wet, very firm	
2			0.0		reddish brown silt, with clay moist brown fine sand and silt, moist firm	(50/50)
3			0.0			
4			0.0		strong brown fine sand and silt firm, moist	(70/30) wet at dip
5		5.0	0.0		Grayish brown fine sand and silt, saturated, soft	
6			0.0			
7			0.0			
8			0.0			
9			0.0		brown fine sand, with silt sand, soft	
10						

Page 1 of 3Signature: R. SentsDate: 7/29/09



ERM
5788 Widewaters Parkway, Dewitt, New York 13214
BORING LOG

Boring Number

GP-142

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		4.5	0.0		brown fine sand, with silt saturated, firm	
11			0.0			
12			0.0		brown, fine sand and silt, trace clay, firm	(60/25/5) 3" loose
			0.0		Very dark gray, med to coarse sand, w/ silt, saturated	(95/5)
13			0.0			
			0.0			
14			0.1			
			0.0			
15			0.0		Very dark gray fine to med. sand w/ silt, saturated	(95/5)
		5.0	0.0			SP-16 used to collect water sample from between 14-18 ft bgs
16			0.0			Sample ID: ANG-GP-143 Sample Time: 12:00
17			0.0			
18			0.0			
19			0.0			
20			0.0		Ruddy brown fine sand and silt firm, saturated	(70/30) (50/50)

Page 2 of 3

Signature: [Signature]

Date: 7/29/09

**ERM**

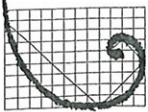
5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-142**BORING LOG**

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
20		5.0	0.0	NM	Reddish brown fine sand and silt, very firm, saturated	(50/50)
21			0.0			(60/40)
22			0.0			(70/50) soft
23			0.0		Reddish brown silt and fine sand trace coarse sand to small subround gravel, very firm	(60/30/10)
24			0.0			
25			0.0		Reddish brown silt and fine sand trace small gravel and clay	(50/30/10/10) very firm
26						
27						
28						
29						
30						

Page 3 of 3Signature: [Signature]Date: 7/29/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-143

BORING LOG

Project Name & Location ANG Hancock - SRI-PT		Project Number 0086335	Date & Time Started: 7/26/09 → 7/29/09
Drilling Company ECSI		Foreman Chuck Alan	Date & Time Completed: 12:00 to 13:15
Drilling Equipment Geoprobe 6610DT		Method Direct Push	Sampler(s) Macro Core
Bit Size(s)		Core Barrel(s)	Sampler Hammer Auto
			Drop Auto
			Completion Depth 20
			Rock Depth —
Geologist(s) R. Sents			

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
	LOCATION:				SURFACE DESCRIPTION:	
0					Gravel road	
	3.5	0.0	NM		Gray, silt to med subangular gravel, very firm, moist	road base
1						
		0.0			Very dark brown silt to sm subangular gravel, very firm moist	
2						
		0.0			strong brown silt and fine sand trace clay, moist, firm	(60/30/10)
					strong brown silt and fine sand moist, firm	(70/30)
3						
		0.0				(60/40)
4						(50/50)
5						
	3.8	0.0			Brown fine sand and silt saturated firm	(70/30)
6						
		0.0			Grayish brown fine sand and silt, saturated firm	(60/40)
7						
		0.0				
8						soft
		0.0				
9						
10						

Page 1 of 2Signature: R. SentsDate: 7/29/09



ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-143

BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		4.5	0.0	NM	Brown fine sand and silt, trace coarse sand, saturated soft	(60/90/10)
11			0.0		Reddish brown fine sand and silt, trace small gravel	(60/55/5)
12			0.0			
13			0.6		Reddish brown fine sand, with silt, saturated	(80/20)
					Reddish brown fine to med sand with silt	(90/10)
14			0.0		Reddish brown fine sand, trace silt, very firm	(45/5)
					Dark gray med. to fine sand, with silt	(45/10)
15		5.0	0.0		Same as above	SP-16 set between 15-19 ft to collect water sample
16			0.6			Sample ID: ANG-GP-143
						Sample Time: 13:10
17			0.0		Same as above	
18			0.0			
19			0.0			
20					Reddish brown silt and fine sand, trace clay	(65/30/5)

Page 2 of 2

Signature: [Signature]

Date: 7/29/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-144

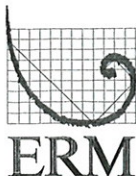
BORING LOG

Project Name & Location ANG Hancock - SRI-PT		Project Number 0086335	Date & Time Started: 7/25/09 → 7/25/09	
Drilling Company ECSI		Foreman Chuck Alan	Sampler(s) Macro Core	Sampler Hammer Auto
Drilling Equipment Geoprobe 6610DT		Method Direct Push	Elevation & Datum -	Completion Depth -
Bit Size(s)		Core Barrel(s)	Geologist(s) R. Sents	

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
LOCATION:					SURFACE DESCRIPTION:	
0					Gravel road	
	3.9	0.2	NM		Very dark gray silt to small subangular gravel, moist, very firm	road base
1		0.0			Gray fine sand to med subangular gravel	
		0.0				
2					↓ Dark gray fine sand and silt with gravel, firm moist	(50/30/20)
		0.0				
3					strong brown silt and fine sand firm, moist	(70/30) (60/40)
		0.0				(50/50)
4					↓	wet at tip
		0.0				
5	4.5	0.0			Greyish brown fine sand and silt saturated firm	(50/50)
6		0.0				(60/40)
7		0.1				(70/30)
8		0.1				(50/50)
9		0.1				(50/50)
10						

Page 1 of

Signature: Paulo SantosDate: 7/25/09



ERM
5788 Widewaters Parkway, Dewitt, New York 13214
BORING LOG

Boring Number

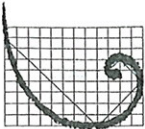
GP-144

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		5.0	0.0		Reddish brown fine sand and silt soft, saturated	(50/50)
11			0.0			(70/30) very soft
12			0.0			(50/50)
13			0.0			(70/30) firm
14			0.0		Reddish brown fine sand w/ silt very firm	(90/10)
			0.0		Dark gray fine to med. sand, with silt, saturated	(90/10)
15		5.0	0.0			
			0.0		Same as above	
16			0.0			
17			0.0			SP/16 sample collected between 15-19 ft bgs. Sample time: 14:40 Sample ID: ANG-GP-144
18			0.0			
19			0.0			
20					Reddish brown, silt and fine sand, trace clay and silt gravel	(60/30/5/5)

Page 2 of 2

Signature: Polo [Signature]

Date: 7/29/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-145

BORING LOG

Project Name & Location ANG Hancock - SRI-PT		Project Number 0086335	Date & Time Started: 7/29/09 → 7/29/09
Drilling Company ECSI		Foreman Chuck Alan	Date & Time Completed:
Drilling Equipment Geoprobe 6610DT		Method Direct Push	Sampler(s) Macro Core
Bit Size(s)		Core Barrel(s)	Sampler Hammer Auto
			Drop Auto
			Completion Depth 20
			Rock Depth —
			Geologist(s) R. Sents

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
	LOCATION:				SURFACE DESCRIPTION:	
0		4.8	0.2	NM	very dark gray, silt to small subangular gravel, very firm moist	road base
1			0.0			
2			0.0		brown silt and clay, firm moist	(70/33)
3			0.0			
4			0.0		Grayish brown silt and fine sand firm	(60/40)
5		4.8	0.0		Grayish brown silt and fines sand, trace coarse sand saturated soft	Wet at tip (70/25/5)
6			0.0			
7			0.0		Grayish brown fine sand and silt, saturated, firm	(70/30)
8			0.0			
			0.0		Reddish brown fine sand and silt, saturated, firm	(70/30)
9			0.0		med brown medium to fine sand w/silt, saturated	(85/15)
10						

Page 1 of Signature: *Paulo*Date: 7/29/09



ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-145

BORING LOG

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		5.0	0.0		med brown med. and fine sand w/ silt, saturated firm	(60/30/10)
11			0.0		Grayish brown med. and fine sand, with silt	(50/40/10)
12						
13					Same as above	
14						SP-16 Set at 13-17 ft Sample ID: ANG-GP-145 Sample Time: 15:45
15		4.8			Same as above	
16					Same as above	
17					Same as above	
18						
19					Same as above	
20					Reddish brown silt and fine sand with small subround gravel and clay	(50/30/10/10) last 2" of sample

Page 2 of 2

Signature: [Signature]

Date: 7/21/06



ERM
5788 Widewaters Parkway, Dewitt, New York 13214
BORING LOG

Boring Number

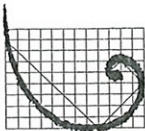
GP-146

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
10		4.1	0.0	NM	Gray - SILT, mo wet	
11			0.0			
12			0.0			
13			0.0			
14			0.0			
15		4.0	0.0			
16			0.0		Gray - f - m SAND, wet	
17			0.0			
18			0.0			H ₂ O Sample for BEX
19			0.0			
20					Red brown Silty Clay in tip	

Page 2 of 2

Signature: David W. Myers

Date: 7/30/09



ERM

ERM

5788 Widewaters Parkway, Dewitt, New York 13214

Boring Number

GP-146

BORING LOG

Project Name & Location ANG Hancock - SRI-PT		Project Number 0086335	Date & Time Started: 7/30/09 → 7/30/09
Drilling Company ECSI		Foreman Chuck Alan	Date & Time Completed: 7:45
Drilling Equipment Geoprobe 6610DT		Method Direct Push	Sampler(s) Macro Core
Bit Size(s)		Core Barrel(s)	Sampler Hammer Auto
			Drop Auto
			Elevation & Datum -
			Completion Depth -
			Rock Depth -
Geologist(s) R. Sents Dave Myers			

DEPTH (ft below grade)	SAMPLES				SOIL DESCRIPTION	REMARKS
	Sample Number	Recovery (feet)	FID/ PID (ppm)	Blow Counts		
	LOCATION:				SURFACE DESCRIPTION:	
0					Topsoil - Grass - Golf Course	
		4.2	0.0	NM	Brown - Clay, silty, some sand, moist	
1			0.0			
2			0.0			
3			0.0			
4			0.0		Brown - Silt, trace sand, moist to wet	
5		3.8	0.0			
6			0.0			
7			0.0			
8			0.0		Gray - silt, trace sand wet	
9			0.0			
10						

LOW FLOW DATA SHEET

Well ID: Mw-125

Date: 4.13.89

Project Name: 7A167

Project Number: 0090335

Weather Conditions:

Pump Used

Static water level before lowflow: 7.55 (feet below top of casing)

Bottom of well: 35.20 (feet below top of casing)

Time Started:

0307

Time Finished:

[illegible]

Notes: Ferrous iron \rightarrow 3.5 3.5

Sample ID: ANL-MW-105 (0409)

Sample Time: 1705

Total Vol. Purged:	2	Gallons
--------------------	---	---------

Samplers Initials: S.D.

Project Number:

Project Name: AAUG- Herack Field

Date: 4/13/06

Well ID: MS-14

Weather Conditions:

Pump Used

Static water level before lowflow: 6.81 (feet below top of casing)
Bottom of well: _____ (feet below top of casing)

Time Started: 14:31 Time Finished: _____[illegible]

Notes: Ferrans Tran 1.7 mg/l

Sample ID: ANG-MW-19 Couba

Sample Time: 15:20

Total Vol. Purged: 22.5 Gallons

Samplers Initials: RS

LOW FLOW DATA SHEET

Well ID: MW-106

Date: 4.13.09

Project Name:

Project Number:

Weather Conditions:

clear, dry, frost

Static water level before lowflow: 1.67 (feet below top of casing)

Bottom of well: 25.61 (feet below top of casing)

Time Started:

5551

Time Finished:

150

[illegible]

Notes:

Ferron ~ 0.8

Sample ID: AUB-MW-10U (6409)

Sample Time: 1640

Total Vol. Purged: 2.5 Gallons

Samplers Initials: S.D.

LOW FLOW DATA SHEET

Well ID: MW-107 Date: 4-13-09 Project Name: ANG Project Number: 0080335

Weather Conditions: Clear, dry ± 45°F

Pump Used
peristaltic

Static water level before lowflow: 4.22 (feet below top of casing)
Bottom of well: (feet below top of casing)

Time Started: 14:14 Time Finished: 15:50

Time	DTW feet	Pump (on/off)	Turb. NTU	Temp. deg. C	pH	Cond. us/cm	DO mg/L	Flow ml/min.	ORP mv	Comments
			+/- 10%	+/- 3%	0.1 unit	+/- 3%	+/- 10%	100-400	+/- 10 mv	
1440	4.22	ON	96.7	9.96	7.48	847	4.52	200	15.4	
1445	4.21		NM	9.84	7.43	832	4.73		14.0	
1450	4.22		NM	9.86	7.41	827	4.75		14.1	
1455	4.22		84.5	9.57	7.30	789	4.92		16.9	
1500	4.21		NM	9.41	7.24	781	4.95		18.9	
1505	4.22		NM	9.36	7.22	779	4.98		19.5	
1510	4.22		NM	4.32	7.21	775	5.06		21.6	
1515	4.22		39.0	9.33	7.08	777	5.07		23.3	
1520	4.22		17.3	9.33	6.95	820	4.95		22.7	
1525	4.22		NM	9.51	6.91	844	4.82		22.1	
1530	4.22		15.2	9.53	6.92	848	4.78		21.4	
1535	4.22		15.4	9.52	6.92	845	4.89		21.4	

Notes: Ferrous Iron ~ 0.0 Sample ID: ANG-MW-107(0409)
Sample Time: 1540
Total Vol. Purged: 3.0 Gallons
Samplers Initials: SP

LOW FLOW DATA SHEET

Well ID: mw-111

Date: 4/13/09

Project Name:

AUG-Henck Field

Project Number:

Weather Conditions:

43°F. Partly cloudy, wind 0-5 mph at west

Static water level before lowflow: 2.25 (feet below top of casing)
 Bottom of well: _____ (feet below top of casing)

Time Started:

10:38

Time Finished: 11:20

[illegible]

Notes: Forward IRON 0.0 ms/l

Sample ID: A16-MW-111 Coyle

Sample Time: 11:15

Total Vol. Purged: ~2 Gallons

Samplers Initials: RS

LOW FLOW DATA SHEET

Well ID: MW-112
Date: 4/13/09
Project Name: ANG-Henckels Field
Project Number: 0086335

Weather Conditions: $\pm 40^{\circ}\text{F}$, partly cloudy, 0-5 mph wind out of west

Static water level before lowflow: 2.07 (feet below top of casing)
Bottom of well: _____ (feet below top of casing)

Time Started: 11:57 Time Finished:

[illegible]

Notes: Ferris Iron: 2.1 mg/l	Sample ID: AVG-MW-112 (44/65)	AVG-Dup (44/65)
	Sample Time: 12:57	
	Total Vol. Purged: ~2.5	Gallons
	Samplers Initials: RS	

LOW FLOW DATA SHEET

Date: 8/5/2009

Project Number: 86335.32

± 75°, partly cloudy, breezy

Pump Used

Static water level before lowflow: 8.73 (feet below top of casing)
Bottom of well: 13.98 (feet below top of casing)

13:37

Time Finished:

Time Finished: 14:20

[illegible]

Forscus loan 2.7 mg/L

Sample Time: 14:15

Total Vol. Purged: ~6.5 Gallons

Samplers Initials: *EC*

LOW FLOW DATA SHEET

Well ID: MW-105

Date: 8/5/2009

Project Name: ANG Hancock Field

Project Number: 86335.32

Weather Conditions:

clear, dry ± 75°F

Pump Used

peristaltic

Static water level before lowflow: 9.21 (feet below top of casing)

Bottom of well: 34.55 (feet below top of casing)

Time Started:

1315

Time Finished:

1430

Time	* DTW feet	Pump (on/off)	Turb. NTU	Temp. deg. C	pH SU	Cond. us/cm	DO mg/L	Flow ml/min.	ORP mv	Comments
1320	7.54		237	12.79	7.22	1.014	5.57	200	92.3	
1325	6.51		92.9	13.22	7.20	1.011	5.14	200	100.9	
1330	6.91		NM	13.46	7.20	1.020	4.34	200	102.2	
1335	6.65			13.31	7.17	1.015	4.02	200	103.5	
1340	6.67			13.45	7.18	1.009	4.09	200	105.2	
1345	7.14			13.38	7.17	0.989	4.64	200	105.3	
1350	6.55			13.47	7.18	0.983	3.75	200	99.0	
1355	6.42			13.51	7.18	0.981	3.44	200	96.8	
1400	6.50			13.39	7.18	0.978	3.38	200	96.8	
1405	6.65		35.0	13.53	7.17	0.969	3.10	200	96.0	
1410	6.63		27.2	13.68	7.21	0.956	2.95	200	86.1	

Notes: Fe²⁺ = 0.8

* Calcium carbonate injection - observed in H₂O;
skewing DTW measurements.

Sample ID: ANG-MW-105-DB09

Sample Time: 1415

Total Vol. Purged: 2 Gallons

Samplers Initials: SP

101

Well ID: MW-122 Date: 8/5/2009

Project Name: ANG Hancock Field

Project Number: 86335.32

Weather Conditions:

Clear, dry $\pm 80^{\circ}\text{F}$

Pump Used

Geo Pump

Static water level before lowflow: 2.67 (feet below top of casing)
Bottom of well: 25.59 (feet below top of casing)

Time Started:

Q171

Time Finished: 1710

[illegible]

Notes: $Fe^{2+} = 0$

Sample ID: **ANb-MW-108-0809**

Sample Time: 1700

Total Vol. Purged: **3** Gallons

Samplers Initials: SP

Well ID: MW-107 Date: 8/5/2009 Project Name: ANG Hancock Field Project Number: 86335.32

Weather Conditions:

clear, dry $\pm 75^{\circ}\text{F}$

Pump Used

peristaltic

Static water level before lowflow: 5.53 (feet below top of casing)
Bottom of well: 24.15 (feet below top of casing)

Time Started: 1435

[illegible]

Notes: $Fe^{2+} = 5.2$

Sample ID: AN6-MW-107-0809

Sample Time: 1530

Total Vol. Purged: 2.5 Gallons

Samplers Initials: SP

Well ID: M1W-111

Date: 8/5/2009

Project Name: ANG Hancock Field

Project Number: 86335.32

Weather Conditions:

overcast, dry \pm 70°

Static water level before lowflow: 2.85 (feet below top of casing)

Bottom of well: 16.68 (feet below top of casing)

Pump Used

peristaltic

Time Started:

0001

Time Finished: 11:5

[illegible]

Notes:

$$Fe^{2+} = 0.2$$

Sample ID: AN6-MW-111(0809) AN6-MW-111-0809-MSD
 Sample Time: 10/2/2009 11:00:00 AM

Sample Time: 12:45

Total Vol. Purged: 1.5 Gallons

Samplers Initials: SP

Well ID: MW-112 Date: 8/5/2009 Project Name: ANG Hancock Field Project Number: 86335.32

Weather Conditions:

620059, 655550, 60521

Pump Used

Static water level before lowflow: 2.40 (feet below top of casing)
Bottom of well: 16.87 (feet below top of casing)

Time Started:

9:55

Time Finished: 10:50

[illegible]

Notes:

Ferrous Iron: 2.7 mg/L

Sample ID: ANG MW-117-0809 ANG-Dup-0809
Sample Time: 10:35

Sample Time: 10:35

Total Vol. Purged: 24 Gallons

Samplers Initials: **RE**

Well ID: MC-113 Date: 8/5/2009 Project Name: ANG Hancock Field Project Number: 86335.32

Weather Conditions:

+800, partly cloudy, breezy

Static water level before lowflow: 1.86 (feet below top of casing)
Bottom of well: 76.58 (feet below top of casing)

Pump Used

Time Started:

02:27

Time Finished:

[illegible]

Notes:

Ferric iron: 1.7 mg/L

Sample ID: ANG-MW-113-0809

Sample Time: 15:05

Sample time.	15:03
Total Vol. Purged:	~3 Gallons

Samplers Initials: RS

Well ID: MW-114 Date: 8/5/05 Project Name: ANG Hancock Field Project Number: 0086335.07

Weather Conditions: +75°f, partly cloudy breeze

Static water level before lowflow: 70c (feet below top of casing)
Bottom of well: 18.24 (feet below top of casing)

Time Started: _____ Time Finished: _____

Time Finished:

[illegible]

Notes: - Once 1 plug was removed water started slowly flowing out of casing

Sample ID: ANG-MN-114-6800

Sample Time: 16:00

Total Vol. Purged: ~10 Gallons

Samplers Initials: **ea**

Well ID: M/W-19 Date: 10/7/09 Project Name: ANG Hancock Project Number: 86335

Weather Conditions: Overcast, cool, windy, light rain
50°F

Static water level before lowflow: 8.80 (feet below top of casing)
Bottom of well: 14.54 (feet below top of casing)

Pump Used	Baranov
-----------	---------

Time Started: _____ Time Finished: 10:20
9:40

[illegible]

Notes: clear - no odor

Sample ID: AUG-MW-19 - 10/00

Sample Time: 10:15
Total Vol. Purged: ~ 35 Gallons
Samplers Initials: DWM

LOW FLOW DATA SHEET

Well ID: MW-105 Date: 10/6/09 Project Name: ANG Hancock Project Number: 86335

Weather Conditions: Partly Cloudy to Sunny - Wind - calm

Static water level before lowflow: 9.38 (feet below top of casing)

Bottom of well: 34.20 (feet below top of casing)

Pump Used	Barvauf
-----------	---------

Time Started: 14:50 Time Finished: 15:25

[illegible]

Notes: v. slightly cloudy - no odors	Sample ID: AUG-MW-105 - 10/09
ferrous i conc 2.9 mg/l	Sample Time: 15:25
	Total Vol. Purged: ~ 4 Gallons
	Samplers Initials: DWM

LOW FLOW DATA SHEET

Well ID: D6
Date: 10.6.09
Project Name: ANG Hencock
Project Number: 86335

Weather Conditions: clear dry ± 100°F

Static water level before lowflow: 2.73 (feet below top of casing)

Pump Used
Pine - geo pump

Static water level before lowflow: 7.73 (feet below top of casing)
Bottom of well: 25.43 (feet below top of casing)

Time Started: 1600 Time Finished: 1700

[illegible]

Notes: $Fe^{2+} = 0.0$

Sample ID: AUG-MW-106-10/09

Sample Time: 1243

Total Vol. Purged: ~ 3 Gallons

Samplers Initials: SP

Well ID: 107
Date: 10.6.09
Project Name: ANG Hancock
Project Number: 86335

Weather Conditions: Clear, dry $\pm 40^{\circ}\text{F}$

Static water level before lowflow: 5.54 (feet below top of casing)
 Bottom of well: 24.14 (feet below top of casing)

Pump Used
pine - geopump

Time Started: 1455 Time Finished: 1600

[illegible]

Notes: $Fe^{2+} = 3.5$

Sample ID: AUG-HW-107-16/02

Sample Time: 1545

Total Vol. Purged: ~ 3.5 Gallons

Samplers Initials: SP

LOW FLOW DATA SHEET

Well ID: 111 Date: 10.6.09 Project Name: ANG Hancock Project Number: 86335

Weather Conditions: Clear, dry $\pm 55^{\circ}\text{F}$

Static water level before lowflow: 2.92 (feet below top of casing)
Bottom of well: 16.69 (feet below top of casing)

Pump Used
pine - goop pump

Time Started: 1105 Time Finished: 1220

Time	DTW	Pump (on/off)	Turb.	Temp.	pH	Cond.	DO	Flow ml/min	ORP	Comments
1115	2.96	on	26.8	14.78	7.35	1746	0.38	150	38.2	
1120	2.95		NM	15.14	7.32	1751	0.28	↓	40.0	
1125	2.96			14.97	7.26	1756	0.26	200	38.7	
1130	2.95			14.77	7.26	1753	0.28		37.5	
1135	2.96			14.90	7.25	1754	0.26		35.9	
1140	2.96		↓	15.02	7.29	1758	0.27		32.7	
1145	2.96		20.0	15.14	7.23	1762	0.22		29.5	
1150	2.95		NM	15.09	7.24	1766	0.21		28.9	
1155	2.96		↓	14.97	7.26	1753	0.18		26.8	
1200	2.96	↓	29.2	14.89	7.21	1750	0.15	↓	27.9	

Notes: Fe²⁺ = 0.0 Sample ID: ANG-HW-111-10/09
Sample Time: 1205
Total Vol. Purged: 23 Gallons
Samplers Initials: SP

Well ID: 112
Date: 10.6.09
Project Name: ANG Hancock
Project Number: 86335

Pump Used
pinc - geopump

Weather Conditions: Clear, dry $\pm 50^{\circ}\text{F}$

Static water level before lowflow: 2.89 (feet below top of casing)
Bottom of well: 17.01 (feet below top of casing)

Time Started: 0430
Time Finished: 1055

[illegible]

Notes:	Fe ²⁺ = D.O
	slight odor
	Sample ID: AUG-MW-112-10/09
	Sample Time: 1040
	Total Vol. Purged: 23 Gallons
	Samplers Initials: SP

113

Well ID: MW-154 Date: 10/6/09

Project Number: 86335

Weather Conditions: Cloudy, Cool 55°F, windy 5-10 mph

* (feet below top of casing) - above ground surface
(feet below top of casing)

13:15 Time Finished: 13:50

[illegible]

Notes: clear - no odors

Well ID: FW-114 Date: 10/6/09 Project Name: ANG Hancock Project Number: 86335

Project Number: 86335

Weather Conditions: $\pm 70^{\circ}\text{F}$, partly cloudy, 0-5 mph

Static water level before flowlow: 70c (feet below top of casing)
 Bottom of well: _____ (feet below top of casing)

Pump Used
Geopump₂
Horiba U-22

Time Started: 04:14 Time Finished: _____

[illegible]

Notes: <i>froms hen: 1.4 ms/c</i>	Sample ID: <i>ANG-MV-114 - 10/09 ms/msd</i>
	Sample Time: <i>17:00</i>
	Total Vol. Purged: <i>10</i> Gallons
	Samplers Initials: <i>ES</i>

Well ID: 109 Date: 10-7-09 Project Name: ANG Hancock Project Number: 86335

Static water level before lowflow: 10.89 (feet below top of casing)
Bottom of well: 14.43 (feet below top of casing)

Time Started: 1000 Time Finished: 1055

[illegible]

Notes:	50.2
Sample ID:	ANG-MW-109 - 10/09
Sample Time:	1640
Total Vol. Purged:	1.5 Gallons
Samplers Initials:	SP

Project Number: 86335

Project Name: ANG Hancock

Well ID: MW-108 Date: 10/7/09

Weather Conditions: $\frac{1}{2}$ to 10° overcast, wind 0-30 mph out of West

Static water level before lowflow: 10.87 (feet below top of casing)
Bottom of well: _____ (feet below top of casing)

Pump Used

Time Started: 13:15
Time Finished:

[illegible]

Notes: For each box 1.2 mg/c

Sample ID: ANG-MW-108-10/09

Sample Time: 14:05

Total Vol. Purged: ~ 3 Gallons

Samplers Initials: RS

LOW FLOW DATA SHEET

Well ID: ML-17 Date: 6/8/09 Project Name: ANG Hancock Project Number: 0086335

Weather Conditions: $\approx 65^{\circ}\text{F}$, partly cloudy, breezy

Static water level before lowflow: 17.92 (feet below top of casing)
Bottom of well: 17.00 (feet below top of casing)

Pump Used
Geopumpz
Horiba U-22

Time Started: 13:33 Time Finished:

[illegible]

Notes: Precious Can 1.4 ms/1

Sample ID: ANG-MU-17 10/09

Sample Time: 14:15

Total Vol. Purged: ~2 Gallons

Samplers Initials: RS

Well ID: 8 Date: 10-8-09 Project Name: AN6 Project Number: 0086335

Weather Conditions: Clear dry ± 55°F

Static water level before lowflow: 10.01 (feet below top of casing)

Pump Used: pine - geopump

Static water level before lowflow: 10.01 (feet below top of casing)
 Bottom of well: 16.39 (feet below top of casing)

[illegible]

Notes:	$Fe^{2+} = 1.2$
Sample ID:	ANL6-MW-B-10 09
Sample Time:	1425
Total Vol. Purged:	42 Gallons
Samplers Initials:	ST

Well ID: 15 Date: 10-8-09 Project Name: AN6 Project Number: 0080335

Weather Conditions: clear dry \pm 55°F

Static water level before lowflow: 3.91 (feet below top of casing)
Bottom of well: 17.65 (feet below top of casing)

Pump Used
pine - geopump

Time Started: 1135 Time Finished: 1245

[illegible]

Notes: $F_{A,2} = 2.4$

Sample ID: AN6-110-15-10|09

Sample Time: 1225

Total Vol. Purged: 1 Gallons

Samplers Initials: SP

Well ID: 16 Date: 10.3.09 Project Name: AN4 Project Number: 0036335

Weather Conditions: clear dry $\pm 55^{\circ}\text{F}$

Static water level before lowflow: 13.72 (feet below top of casing)
 Bottom of well: 13.73 (feet below top of casing)

Pump Used
pine → globe pump

Time Started: 1020 Time Finished: 1125

[illegible]

Notes: $Fe^{2+} = 0.2$

Sample ID: AN6-MW-16-10/89

Sample Time: 1110

Total Vol. Purged:	22	Gallons
--------------------	----	---------

Samplers Initials:

Well ID: 14
Date: 10.8.09
Project Name: AN6
Project Number: 0082335

	Pump Used
	pinew geapump

Weather Conditions: clear dry \pm 55°F

Static water level before lowflow: 14.45 (feet below top of casing)
Bottom of well: 17.99 (feet below top of casing)

Time Started: 0845
Time Finished: 1005

[illegible]

Notes: Fe ²⁺ = 2.0	Sample ID: AN6-HW-14-10 09
	Sample Time: 0955
	Total Vol. Purged: 22 Gallons
	Samplers Initials: SD
gw is pink	

Well ID: mw-11 Date: 10/8/09 Project Name: ANG Hencock Project Number: 86335

Weather Conditions: $\pm 60^{\circ}\text{F}$, partly cloudy, breeze 0-10 mph out at west

Static water level before lowflow: 11.41 (feet below top of casing)
Bottom of well: 11.75 (feet below top of casing)

Pump Used	Grappumpz Heriba 4-22
-----------	--------------------------

Time Started: 11:13 Time Finished:

[illegible]

Notes: Forcous loc: 2.2 mg/l
strong "peter-like" odor

Sample ID: ANG-MW-11 10/09
Sample Time: 11:50
Total Vol. Purged: 235 Gallons
Samplers Initials: BC

Well ID: RW-1
Date: 10/8/09
Project Name: ANG Hensack
Project Number: 86835

Weather Conditions: $\pm 60^{\circ}\text{f}$, partly cloudy, breezy

Static water level before lowflow: _____ (feet below top of casing)
 Bottom of well: _____ (feet below top of casing)

Pump Used
Geopump₂
Hariba U-22

Time Started: 8:53 Time Finished: 9:30

[illegible]

Notes: Faucus Icon: 2.5 ms/1

Sample ID: ANG-RW-1 10/09

Sample Time: 9:25

Total Vol. Purged: ~3 Gallons

Samplers Initials: RS

Well ID: B
Date: 10.7.09
Project Name: ANG Hancock
Project Number: 86335

Time Started: 1445 Time Finished: 1550

[illegible]

Notes: $Fe^{2+} = D.D$

Sample ID: AUG-MW-18-10/09
Sample Time: 1535
Total Vol. Purged: 1.5 Gallons
Samplers Initials: SP

Well ID: 102 Date: 10.7.09 Project Name: ANG Hancock Project Number: 86335

Weather Conditions: overcast $t = 55^{\circ}\text{F}$

Static water level before lowflow: 10.86 (feet below top of casing)
Bottom of well: 22.46 (feet below top of casing)

Pump Used
ping ~ geopump

Time Started: 1324 Time Finished: 1435

[illegible]

Notes:	$Fe^{2+} = 1.0$
Sample ID:	ANG-MW-102-10/09
Sample Time:	1420
Total Vol. Purged:	2.5 Gallons
Samplers Initials:	SP

Well ID: 4 Date: 10-7-09 Project Name: ANG Hancock Project Number: 86335

Weather Conditions: overcast rain $\pm 50^{\circ}\text{F}$

Static water level before lowflow: 10.93 (feet below top of casing)
Bottom of well: 19.51 (feet below top of casing)

Pump Used
pine - geopump

Time Started: 1555
Time Finished: 1655

[illegible]

Notes: $Fe^{2+} = 1.0$

Sample ID: AUG-MW-4-10/00

Sample Time:	1635
Total Vol. Purged:	2 Gallons
Samplers Initials:	SP

LOW FLOW DATA SHEET

Well ID: MW-3 Date: 10/7/09 Project Name: ANG Hancock Field Project Number: 86335

Weather Conditions: 60°F, overcast, wind 0-3 mph, clear sky

Pump Used

Static water level before lowflow: 11.19 (feet below top of casing)
Bottom of well: _____ (feet below top of casing)

Time Started: 15:37 Time Finished: _____

Time	DTW	Pump (on/off)	Turb.	Temp.	pH	Cond.	DO	Flow	ORP	Comments
15:40	12.46	ON	28.0	13.62	6.69	0.817	0.77	130	-86	
15:45	12.60	ON	32.0	13.66	6.52	0.766	0.11	100	-59	
15:50	12.62	ON	24.7	13.54	6.42	0.774	0.14	100	-80	
15:55	12.62	ON	30.4	13.42	6.38	0.774	0.05	100	-75	
16:00	12.62	ON	27.4	13.24	6.35	0.782	0.02	100	-71	
16:05	12.62	ON	28.1	13.19	6.34	0.791	0.06	100	-70	
16:10	12.62	ON	27.8	13.03	6.33	0.798	0.08	100	-70	
16:15	12.63	ON	26.9	13.05	6.33	0.817	0.09	100	-70	
16:20	12.64	ON	26.4	13.01	6.34	0.826	0.10	100	-71	
16:25	12.64	ON	25.9	12.99	6.33	0.822	0.12	100	-71	

Notes: Low flow test, 2.1 mg/l Sample ID: ANG-MW-3-10/09
 Sample Time: 16:30
 Total Vol. Purged: ~2 Gallons
 Samplers Initials: RS

Well ID: MW-5
Date: 10/7/05
Project Name: 866335
Project Number: AWG Hancock

Static water level before lowflow: 9.35 (feet below top of casing)
Bottom of well: _____ (feet below top of casing)

Pump Used
Gas pump
Horiba 4-22

Time Started: 14:20 Time Finished: 15:20[illegible]

Notes: Ferraris Inc. 1.7 mg/L

Sample ID: ANG-mw-3	10/09
Sample Time:	15:10
Total Vol. Purged:	~ 3 Gallons
Samplers Initials:	RS

Well ID: 2 Date: 10.7.09 Project Name: AVG Hancock Project Number: 86335

Weather Conditions: overcast, some rain, $\pm 55^{\circ}\text{F}$

Static water level before lowflow: 11.20 (feet below top of casing)
Bottom of well: 13.32 (feet below top of casing)

Pump Used
Dine - geopump

Time Started: 0840 Time Finished: 0950

[illegible]

Notes: $F_{\theta}^2 = 4.2$

Sample ID: AUG-MW-2-10/09

Sample Time: 0435

Total Vol. Purged: 21.5 Gallons

Samplers Initials: SP

Project Number: 86335

Project Name: AUG Hack

Well ID: MW-20 Date: 10/7/09

Weather Conditions: Partly Cloudy - rain earlier, winds light/ven
temp ~ 58°F

Static water level before lowflow: 10.07 (feet below top of casing)
 Bottom of well: 14.65 (feet below top of casing)

Pump Used	Baranant
-----------	----------

[illegible]

Notes:	clear no odors	Sample ID: AUG--MW-20--10/09
		Sample Time: 8:00
	ferrous iron 1.8 mg/L	Total Vol. Purged: ~3.5 Gallons
		Samplers Initials: Dwm

Well ID: MW-9
Date: 10/7/09
Project Name: ANG Hancock
Project Number: 86335

Weather Conditions: Partly cloudy - light + variable
temp ~ 50°F

Static water level before lowflow: 8.70 (feet below top of casing)
Bottom of well: 13.55 (feet below top of casing)

Pump Used	Barnett
-----------	---------

Time Started: 8:15
Time Finished:

[illegible]

Notes: clear - poor recharge - no odor

Sample ID: AUG-10/00

Total Vol. Purged:		Gallons

ferrous iron - 2.0 mg/l

LOW FLOW DATA SHEET

Well ID: PL-101 Date: 10/7/09 Project Name: ANG Hancock Project Number: 86335

Weather Conditions: cloudy overcast, light rain

Static water level before lowflow: 11.52 (feet below top of casing)
Bottom of well: _____ (feet below top of casing)

Pump Used
Geopump2
Horiba U-22

Time Started: 9:00 Time Finished: 10:00

[illegible]

Notes:	Seams broken 1.2 mg/L
Sample ID:	AN6-MV-101 - 10/09
Sample Time:	9:55
Total Vol. Purged:	~5 Gallons
Samplers Initials:	RS

LOW FLOW DATA SHEET

Well ID: MU-22 Date: 10/7/09
Project Name: ANG Hancock
Project Number: 86335

Weather Conditions: +55°F, overcast, rain

Static water level before lowflow: 12.42 (feet below top of casing)
Bottom of well: _____ (feet below top of casing)

Pump Used
Geopump₂
Horiba u-22

Time Started: 10:14 Time Finished:

[illegible]

Notes:	Ferrous Iron: 0.8 mg/L
Sample ID:	ANG-MU-22 - 10/09
Sample Time:	10:55
Total Vol. Purged:	~3.5 Gallons
Samplers Initials:	RC

Well ID: MW-104 Date: _____
Project Name: AUG Hancock Project Number: 86335

Weather Conditions: Clear / Sunny - 60°F - winds light / var.

Static water level before lowflow: 7.42 (feet below top of casing)
Bottom of well: 24.41 (feet below top of casing)

Pump Used	Barnard
-----------	---------

Time Started: 16:00 Time Finished: 16:30

[illegible]

Notes:	clear	no odors	Sample ID: AUG--MW-104-10/09
			Sample Time: 16:30
	Ferrous (mg/L)		Total Vol. Purged: 23.5 Gallons
			Samplers Initials: DW/M

LOW FLOW DATA SHEET

Well ID: 110 Date: 10.09.09 Project Name: ANG Hancock Project Number: 86335

Weather Conditions: clear, dry, $\pm 55^{\circ}\text{F}$

Static water level before lowflow: 4-03 (feet below top of casing)
 Bottom of well: 22-75 (feet below top of casing)

Pump Used
pine - geopump

Time Started: 1325 Time Finished: 1420

[illegible]

Notes:	Fe ²⁺ : D.O
	Sample ID: AUG-MB-11D-10/09
	Sample Time: 1415
	Total Vol. Purged: ~ 3 Gallons
	Samplers Initials: SP

Well ID: MC-103 Date: 10/6/09 Project Name: AUG Hancock Project Number: 86335

Weather Conditions: $\pm 70^\circ\text{F}$, Partly cloudy, breeze 8-16 mph
~~out of NW~~

Static water level before lowflow: 10.41 (feet below top of casing)
Bottom of well: 79.48 (feet below top of casing)

Pump Used
Geo Pumpz
Heriba wzz

Time Started: 14:53 Time Finished: _____

Time Finished:

[illegible]

Notes:

Sample ID: ANG-MW-103-10/09

Sample Time: 15:45

Total Vol. Purged: ~ 3 Gallons

Samplers Initials: RS

APPENDIX C

LABORATORY RESULTS
(See Attached CD)

APPENDIX D

QA/QC EVALUATION RESULTS

**DATA USABILITY SUMMARY REPORT (DUSR)
ANG-HANCOCK FACILITY
SYRACUSE, NEW YORK
GROUND WATER SAMPLE ANALYSES
ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)
PROJECT NUMBER 0086335
LIFE SCIENCE LABORATORIES, INC.
SAMPLE DELIVERY GROUP (SDG) NUMBER 0902920**

Environmental
Resources
Management

5788 Widewaters Parkway
Dewitt, NY 13214
(315) 445-2554
(315) 445-2543 (fax)



Deliverables:

The above referenced data package for nineteen (19) ground water samples, one (1) blind field duplicate sample, one (1) trip blank, one (1) equipment blank, and one (1) set of matrix spike/matrix spike duplicate (MS/MSD) samples contains all required deliverables as stipulated under the 2005 New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) for Category B deliverables. The sample specific analysis included the following volatile organic compounds (VOCs): Benzene, Ethylbenzene and Xylene (BEX) analyzed by United States Environmental Protection Agency (USEPA) Method 8260B. The samples were analyzed following "Test Methods for Evaluating Solid Wastes, SW-846 Third Edition, Final Update III, December 1996".

The data have been validated according to the protocols and quality control (QC) requirements of the ASP; the National Functional Guidelines for Organic Data Review (October 1999); the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-24, Revision 2, October 2006: Validating Volatile Organic Compounds by SW-846 Method 8260B; and the reviewer's professional judgment.

The validation report pertains to the following ground water samples collected from 25 February to 3 March 2009:

<u>Samples</u>	<u>QC Samples</u>	<u>SDG</u> *
ANG-GP-139		0903183
ANG-GP-140		
ANG-GP-141		
ANG-GP-123	ANG-EB	0902920
ANG-GP-124		
ANG-GP-125		
ANG-GP-126		
ANG-GP-127		0902998
ANG-GP-128		
ANG-GP-129		
ANG-GP-130		
ANG-GP-132		
ANG-GP-131	Trip Blank	0903034
ANG-GP-133	ANG-GP-Dupe - Blind Field Duplicate of sample ANG-GP-133	
ANG-GP-134	ANG- GP-134 MS/MSD	
ANG-GP-135		
ANG-GP-136		
ANG-GP-137		
ANG-GP-138		

* Note that lab generated SDGs each day upon receipt of samples, and later combined these SDGs into one report (SDG 0902920).

Volatiles

The following items/criteria were reviewed for this report:

- Case narrative and deliverables compliance
- Holding times and sample preservation (including pH and temperature)
- Surrogate Compound recoveries, summary and data
- Matrix Spike/ Matrix Spike Duplicate (MS/MSD) results, recoveries, summary and data
- Laboratory Check Sample (LCS), recoveries, summary and data
- Method blank summary and data
- Gas Chromatography (GC)/ Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Trip Blank sample results
- Equipment Blank sample results

- Blind Field Duplicate sample results
- Organic analysis data sheets (Form I)
- GC/MS chromatograms, mass spectra and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification

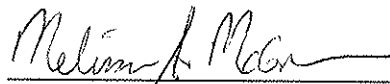
The items listed above were technically and contractually in compliance with SW-846 protocols with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

- The pH was reported to be high in several samples upon receipt at the laboratory. Due to the fact that the samples were analyzed within seven days of receipt, it is ERM's professional opinion that no qualification of the sample data is required.
- The surrogate recovery for the Trip Blank is high (1,2-DCA-d4 is 133%; QC limit 70-130%), indicating that the sample results are possibly biased high. However, due to the fact that all parameters analyzed for the Trip Blank are non-detect, no qualification of the sample data is required.
- During the Bromofluorobenzene (BFB) tune, the % relative abundance for was slightly high for m/e 75. This affected the samples associated with SDG 0902998 and SDG 0903034. Based on a review of the associated chromatograms, in addition to the fact that all samples from the aforementioned SDGs were non-detect for the analyzed parameters, it is ERM's professional opinion that no qualification of the sample data is required.

Package Summary:

All data are valid and usable with qualifications as noted in this review.

Signed:


Melissa A. McGinnis
Project Scientist

Dated: 18 December 2009

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Life Science Laboratories, Inc. Contract: _____**EB**Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0902920-001Sample wt/vol: 10 (g/ml) ML Lab File ID: C11670SLevel: (low/med) LOW Date Received: 2/25/2009% Moisture: not dec. NA Date Analyzed: 2/25/2009GC Column DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Life Science Laboratories, Inc. Contract: _____**GP-123**Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0902920-002Sample wt/vol: 10 (g/ml) ML Lab File ID: C11671SLevel: (low/med) LOW Date Received: 2/25/2009% Moisture: not dec. NA Date Analyzed: 2/25/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Life Science Laboratories, Inc. Contract: _____**GP-124**Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0902920-003Sample wt/vol: 10 (g/ml) ML Lab File ID: C11672SLevel: (low/med) LOW Date Received: 2/25/2009% Moisture: not dec. NA Date Analyzed: 2/25/2009GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Life Science Laboratories, Inc. Contract: _____**GP-125**Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0902920-004Sample wt/vol: 10 (g/ml) ML Lab File ID: C11673SLevel: (low/med) LOW Date Received: 2/25/2009% Moisture: not dec. NA Date Analyzed: 2/25/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-126

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0902920-005Sample wt/vol: 10 (g/ml) ML Lab File ID: C11674SLevel: (low/med) LOW Date Received: 2/25/2009% Moisture: not dec. NA Date Analyzed: 2/25/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

GP-127

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0902998-001Sample wt/vol: 10 (g/ml) ML Lab File ID: C11691SLevel: (low/med) LOW Date Received: 2/26/2009% Moisture: not dec. NA Date Analyzed: 2/26/2009GC Colum: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-128Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0902998-002Sample wt/vol: 10 (g/ml) ML Lab File ID: C11692SLevel: (low/med) LOW Date Received: 2/26/2009% Moisture: not dec. NA Date Analyzed: 2/26/2009GC Colum: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-129

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0902998-003Sample wt/vol: 10 (g/ml) ML Lab File ID: C11693SLevel: (low/med) LOW Date Received: 2/26/2009% Moisture: not dec. NA Date Analyzed: 2/26/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-130

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0902998-004Sample wt/vol: 10 (g/ml) ML Lab File ID: C11694SLevel: (low/med) LOW Date Received: 2/26/2009% Moisture: not dec. NA Date Analyzed: 2/26/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-132Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0902998-005Sample wt/vol: 10 (g/ml) ML Lab File ID: C11695SLevel: (low/med) LOW Date Received: 2/26/2009% Moisture: not dec. NA Date Analyzed: 2/26/2009GC Column DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-131

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0903034-001Sample wt/vol: 10 (g/ml) ML Lab File ID: C11700SLevel: (low/med) LOW Date Received: 2/27/2009% Moisture: not dec. NA Date Analyzed: 2/27/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Life Science Laboratories, Inc.

Contract: _____

GP-133Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0903034-002Sample wt/vol: 10 (g/ml) ML Lab File ID: C11701SLevel: (low/med) LOW Date Received: 2/27/2009% Moisture: not dec. NA Date Analyzed: 2/27/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.		COMPOUND		CONCENTRATION UNITS:	
				UG/L	Q
71-43-2		Benzene		1	U
100-41-4		Ethylbenzene		1	U
108-38-3		m/p-Xylene		1	U
95-47-6		o-Xylene		1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Life Science Laboratories, Inc.

Contract: _____

GP-134Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0903034-003Sample wt/vol: 10 (g/ml) ML Lab File ID: C11702SLevel: (low/med) LOW Date Received: 2/27/2009% Moisture: not dec. NA Date Analyzed: 2/27/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.		COMPOUND		CONCENTRATION UNITS:	
				UG/L	Q
71-43-2		Benzene		1	U
100-41-4		Ethylbenzene		1	U
108-38-3		m/p-Xylene		1	U
95-47-6		o-Xylene		1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Life Science Laboratories, Inc.

Contract: _____

GP-135Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0903034-004Sample wt/vol: 10 (g/ml) ML Lab File ID: C11703SLevel: (low/med) LOW Date Received: 2/27/2009% Moisture: not dec. NA Date Analyzed: 2/27/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Life Science Laboratories, Inc.

Contract: _____

GP-136Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0903034-005Sample wt/vol: 10 (g/ml) ML Lab File ID: C11704SLevel: (low/med) LOW Date Received: 2/27/2009% Moisture: not dec. NA Date Analyzed: 2/27/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.		COMPOUND		CONCENTRATION UNITS:	
				UG/L	Q
71-43-2		Benzene		1	U
100-41-4		Ethylbenzene		1	U
108-38-3		m/p-Xylene		1	U
95-47-6		o-Xylene		1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-137Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0903034-006Sample wt/vol: 10 (g/ml) ML Lab File ID: C11705SLevel: (low/med) LOW Date Received: 2/27/2009% Moisture: not dec. NA Date Analyzed: 2/27/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-138

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0903034-007Sample wt/vol: 10 (g/ml) ML Lab File ID: C11706SLevel: (low/med) LOW Date Received: 2/27/2009% Moisture: not dec. NA Date Analyzed: 2/27/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Life Science Laboratories, Inc.

Contract: _____

GP-DUPELab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0903034-010Sample wt/vol: 10 (g/ml) ML Lab File ID: C11709SLevel: (low/med) LOW Date Received: 2/27/2009% Moisture: not dec. NA Date Analyzed: 2/27/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.		COMPOUND		CONCENTRATION UNITS:	
				UG/L	Q
71-43-2		Benzene		1	U
100-41-4		Ethylbenzene		1	U
108-38-3		m/p-Xylene		1	U
95-47-6		o-Xylene		1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Life Science Laboratories, Inc.

Contract: _____

TRIP BLANKLab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0903034-011Sample wt/vol: 10 (g/ml) ML Lab File ID: C11710SLevel: (low/med) LOW Date Received: 2/27/2009% Moisture: not dec. NA Date Analyzed: 2/28/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-139

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0903183-001Sample wt/vol: 10 (g/ml) ML Lab File ID: C11726SLevel: (low/med) LOW Date Received: 3/3/2009% Moisture: not dec. NA Date Analyzed: 3/4/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GP-140

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0903183-002Sample wt/vol: 10 (g/ml) ML Lab File ID: C11727SLevel: (low/med) LOW Date Received: 3/3/2009% Moisture: not dec. NA Date Analyzed: 3/4/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Life Science Laboratories, Inc.

Contract: _____

GP-141Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0902920Matrix: (soil/water) WATER Lab Sample ID: 0903183-003Sample wt/vol: 10 (g/ml) ML Lab File ID: C11728SLevel: (low/med) LOW Date Received: 3/3/2009% Moisture: not dec. NA Date Analyzed: 3/4/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

**DATA USABILITY SUMMARY REPORT (DUSR)
ANG-HANCOCK FACILITY
SYRACUSE, NEW YORK
GROUND WATER SAMPLE ANALYSES
ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)
PROJECT NUMBER 0086335
LIFE SCIENCE LABORATORIES, INC.
SAMPLE DELIVERY GROUP (SDG) NUMBER 0905549**



Deliverables:

The above referenced data package for six (6) ground water samples, one (1) blind field duplicate sample, one (1) trip blanks, one (1) equipment blank, and one (1) set of matrix spike/matrix spike duplicate (MS/MSD) samples contains all required deliverables as stipulated under the 2005 New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) for Category B deliverables.

The sample specific analyses included Benzene, Ethylbenzene and Xylene (BEX) analyzed by United States Environmental Protection Agency (USEPA) SW-846 Method 8260B and Methane analyzed by USEPA SW-846 Method 8015 in accordance with *"Test Methods for Evaluating Solid Wastes, SW-846 Third Edition, Final Update III, December 1996"*. The samples were also analyzed for Total Hardness by calculation/metals by USEPA SW-846 Method 200.7 in accordance with *"40 CFR 136, Category A and B Parameters in Water and Wastewater"*. In addition, the samples were analyzed for Nitrate and Sulfate by USEPA Method 300.0; Alkalinity by SM 18 2320B; and Ammonia by USEPA Method 350.2.

The data have been validated according to the protocols and quality control (QC) requirements of the ASP; the National Functional Guidelines for Organic Data Review (October 1999); the National Functional Guidelines for Inorganic Data Review (July 2002); the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-24, Revision 2, October 2006: Validating Volatile Organic Compounds by SW-846 Method 8260B; and the reviewer's professional judgment.

The validation report pertains to the following ground water samples collected on 13 April 2009:

<u>Samples</u>	<u>QC Samples</u>	<u>SDG</u>
ANG-MW-19 (04/09)	ANG-Trip Blank (04/09)	0905549
ANG-MW-105 (04/09)	ANG- MW-105 (04/09) MS/MSD	
ANG-MW-106 (04/09)	ANG-EB (04/09)	
ANG-MW-107 (04/09)		
ANG-MW-111 (04/09)		
ANG-MW-112 (04/09)	ANG-Dup (04/09) - Blind Field Duplicate of ANG-MW-112 (04/09)	

Organics

The following items/criteria were reviewed for this report:

- Case narrative and deliverables compliance
- Holding times and sample preservation (including pH and temperature)
- Surrogate Compound recoveries, summary and data
- Matrix Spike/ Matrix Spike Duplicate (MS/MSD) results, recoveries, summary and data
- Laboratory Check Sample (LCS), recoveries, summary and data
- Method blank summary and data
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Trip Blank sample results
- Blind Field Duplicate sample results
- Organic analysis data sheets (Form I)
- GC/MS and GC chromatograms, mass spectra and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification

The items listed above were technically and contractually in compliance with SW-846 protocols with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

Volatiles

- Numerous samples were run at dilutions due to high levels of target and/or non-target compounds, causing elevated reporting limits. The laboratory has reported the final result

only on the Form I. No qualification of the sample data is required; however, the data user should be aware of the elevated detection limits.

- The pH was reported to be high in one sample upon receipt at the laboratory. Due to the fact that the sample was analyzed for VOCs within seven days of receipt, it is ERM's professional opinion that no qualification of the sample data is required.
- The results for sample ANG-MW-112 and its associated blind duplicate (ANG-Dup) vary for VOCs. The results for both the sample and the duplicate have been reported on the data tables. Results from both samples are considered estimated and are qualified "J"/"UJ".
- The percent recovery (%R) for Ethylbenzene was above QC limits in the MS analysis of sample ANG-MW-105 (139%; QC limit 70-130%). Also, the %R for m/p-Xylene was above QC limits in the MS analysis of sample ANG-SC-32 (150%; QC limit 70-130%). This indicates a potential high bias for Ethylbenzene and m/p-Xylene in sample ANG-MW-105 only. Therefore, positive results for Ethylbenzene and m/p-Xylene in this sample are considered estimated and qualified "J".

Methane

- The following table includes samples that were analyzed at dilutions due to the sample matrix (in addition to elevated Methane levels in some samples), and the associated dilution factor. No qualification of the sample data is required.

Sample	Dilution Factor
ANG-MW-19 (04/09)	20x
ANG-MW-105 (04/09)	20x
ANG-MW-112 (04/09)	50x
ANG-Dup (04/09)	50X

- The percent recovery (%R) for Methane was below the QC limits in the MS/MSD analysis of sample ANG-MW-105 (both 0%; QC limit 30-130%). This can be attributed to the elevated concentration of Methane in the unspiked sample. Since the Methane recoveries met QC criteria in the LCS samples associated with this sample set, it is the reviewer's professional

opinion that qualification of the sample data is not required.

Inorganics

The following items/criteria were reviewed:

- Case narrative and deliverable requirements
- Holding times and sample preservation
- Detection limits
- Inorganic analysis data sheets (Form I)
- Initial and continuing calibration verifications
- Low and High Calibration Check standard analysis
- Lab Blank results
- Blind Field Duplicate sample results
- ICP interference check sample analysis
- Matrix Spike analysis
- Duplicate Analysis (metals)
- Matrix Spike Duplicate analysis
- Laboratory Control Sample (LCS) results

The items listed above were technically and contractually in compliance with SW-846 protocols with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

Metals

- No qualification of the sample data is required.

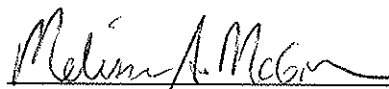
General Chemistry

- No qualification of the sample data is required.

Package Summary:

All data are valid and usable with qualifications as noted in this review.

Signed:


Melissa A. McGinnis
Project Scientist

Dated: 18 December 2009

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-111Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0905549Matrix: (soil/water) WATER Lab Sample ID: 0905549-001ASample wt/vol: 10 (g/ml) ML Lab File ID: N16039SLevel: (low/med) LOW Date Received: 4/14/2009% Moisture: not dec. NA Date Analyzed: 4/16/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0905549Matrix: (soil/water) WATER Lab Sample ID: 0905549-002ASample wt/vol: 10 (g/ml) ML Lab File ID: N16040SLevel: (low/med) LOW Date Received: 4/14/2009% Moisture: not dec. NA Date Analyzed: 4/16/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBLab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0905549Matrix: (soil/water) WATER Lab Sample ID: 0905549-003ASample wt/vol: 10 (g/ml) ML Lab File ID: N16041SLevel: (low/med) LOW Date Received: 4/14/2009% Moisture: not dec. NA Date Analyzed: 4/16/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-105Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0905549Matrix: (soil/water) WATER Lab Sample ID: 0905549-004ASample wt/vol: 10 (g/ml) ML Lab File ID: N16042SLevel: (low/med) LOW Date Received: 4/14/2009% Moisture: not dec. NA Date Analyzed: 4/16/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 5.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	6.2	
100-41-4	Ethylbenzene	119	
108-38-3	m/p-Xylene	259	
95-47-6	o-Xylene	1.8	

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-112Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0905549Matrix: (soil/water) WATER Lab Sample ID: 0905549-007ASample wt/vol: 10 (g/ml) ML Lab File ID: N16045SLevel: (low/med) LOW Date Received: 4/14/2009% Moisture: not dec. NA Date Analyzed: 4/17/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 5.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	13.0	J
100-41-4	Ethylbenzene	250	J
108-38-3	m/p-Xylene	480	J
95-47-6	o-Xylene	1.2	J

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0905549Matrix: (soil/water) WATER Lab Sample ID: 0905549-008ASample wt/vol: 10 (g/ml) ML Lab File ID: N16046SLevel: (low/med) LOW Date Received: 4/14/2009% Moisture: not dec. NA Date Analyzed: 4/17/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 5.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	16.0	J
100-41-4	Ethylbenzene	310	J
108-38-3	m/p-Xylene	590	J
95-47-6	o-Xylene	1.6	J

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-19Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0905549Matrix: (soil/water) WATER Lab Sample ID: 0905549-009ASample wt/vol: 10 (g/ml) ML Lab File ID: N16047SLevel: (low/med) LOW Date Received: 4/14/2009% Moisture: not dec. NA Date Analyzed: 4/17/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	0.71	J
100-41-4	Ethylbenzene	17	
108-38-3	m/p-Xylene	20	
95-47-6	o-Xylene	5	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-107Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0905549Matrix: (soil/water) WATER Lab Sample ID: 0905549-010ASample wt/vol: 10 (g/ml) ML Lab File ID: N16048SLevel: (low/med) LOW Date Received: 4/14/2009% Moisture: not dec. NA Date Analyzed: 4/17/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	0.27	J
95-47-6	o-Xylene	1	U

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-106

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0905549Matrix: (soil/water) WATER Lab Sample ID: 0905549-011ASample wt/vol: 10 (g/ml) ML Lab File ID: N16049SLevel: (low/med) LOW Date Received: 4/14/2009% Moisture: not dec. NA Date Analyzed: 4/17/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ANG-MW-111
(04/09)Lab Name: LIFE SCIENCE LABORATORIES, INC.

Contract: _____

Lab Code: 10248

Case No.: _____

NRAS No.: _____

SDG No.: 0905549Matrix: (soil/water) WATERLab Sample ID: 0905549-001Level: MEDDate Received: 04/14/2009

% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	360			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	45			I

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Color After: _____

Artifacts: _____

Comments: _____

247

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ANG-EB (04/09)

Lab Name: LIFE SCIENCE LABORATORIES, INC.

Contract: _____

Lab Code: 10248

Case No.: _____

NRAS No.: _____

SDG No.: 0905549

Matrix: (soil/water)

WATER

Lab Sample ID: 0905549-003

Level: MED

Date Received: 04/14/2009

% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	16			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	1	U		I

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Color After: _____

Artifacts: _____

Comments: _____

248

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ANG-MW-105
(04/09)

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0905549
Matrix: (soil/water) WATER Lab Sample ID: 0905549-004
Level: MED Date Received: 04/14/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	380			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	8.1			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

249

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ANG-MW-112
(04/09)

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0905549
Matrix: (soil/water) WATER Lab Sample ID: 0905549-007
Level: MED Date Received: 04/14/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	360			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	11			I

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

252

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ANG-Dup (04/09)

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0905549
Matrix: (soil/water) WATER Lab Sample ID: 0905549-008
Level: MED Date Received: 04/14/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	410			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	12			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

253

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ANG-MW-19
(04/09)

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0905549
Matrix: (soil/water) WATER Lab Sample ID: 0905549-009
Level: MED Date Received: 04/14/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	330			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.45			I
14808-79-8	Sulfate	20			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

254

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ANG-MW-107
(04/09)

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0905549
Matrix: (soil/water) WATER Lab Sample ID: 0905549-010
Level: MED Date Received: 04/14/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	200			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	2.1			I
14808-79-8	Sulfate	15			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

255

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ANG-MW-106
(04/09)

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0905549
Matrix: (soil/water) WATER Lab Sample ID: 0905549-011
Level: MED Date Received: 04/14/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	390			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	49			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

256



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT090414CL

W Order: 0904087

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 04/21/09 10:37

Col Type:

Lab ID: 0904087-001A

Client Sample ID: 0905549-001C,D

Collection Date: 04/13/09 11:15

Date Received: 04/14/09 15:50

PrepDate: 04/19/09 10:04

BatchNo: 9278/R17046

FileID: 1-SAMP-E:\Osiapr09\E041905.r

Sample Size: 32 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.040		0.0020	0.0014	mg/L	1	04/19/09 12:59

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prin./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 04/21/09 10:49

441027

Project Supervisor: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT090414CL

W Order: 0904087

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 04/21/09 10:37

Col Type:

Lab ID: 0904087-002A

Client Sample ID: 0905549-003C,D

Collection Date: 04/13/09 11:20

Date Received: 04/14/09 15:50

PrepDate: 04/19/09 10:04

BatchNo: 9278/R17046

FileID: I-SAMP-E:\Osiapr09\E041906.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	ND	0.0020	0.0014	8015M/RSK175M (RSK 175)	mg/L	1	04/19/09 13:37

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 04/21/09 10:49

441028

Project Supervisor: Anthony Crescenzi

381

11



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT090414CL

W Order: 0904087

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 04/21/09 10:37

Col Type:

Lab ID: 0904087-003A

Client Sample ID: 0905549-004C,D

Collection Date: 04/13/09 12:05

Date Received: 04/14/09 15:50

PrepDate: 04/19/09 10:04

BatchNo: 9278/R17046

FileID: 1-SAMP-E:\Osiapr09\E041908.r

Sample Size: 32 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	2.8	0.040		0.028	mg/L	20	04/19/09 13:57

8015M/RSK175M (RSK 175)

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 04/21/09 10:49

441029

Project Supervisor: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT090414CL

W Order: 0904087

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 04/21/09 10:37

Col Type:

Lab ID: 0904087-004A

Client Sample ID: 0905549-007C,D

Collection Date: 04/13/09 12:37

Date Received: 04/14/09 15:50

PrepDate: 04/19/09 10:04

BatchNo: 9278/R17046

FileID: 1-SAMP-E:\Osiapr09\E041914.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M	(RSK 175)	
Methane	3.0	0.10		0.070	mg/L	50	04/19/09 15:51

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

383

Print Date: 04/21/09 10:49

441034

Project Supervisor: Anthony Crescenzi

13



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT090414CL

W Order: 0904087

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 04/21/09 10:37

Col Type:

Sample Size: 31 mL

%Moisture:

TestCode: 8015W RSK175

Lab ID: 0904087-005A

Client Sample ID: 0905549-008C,D

Collection Date: 04/13/09 0:00

Date Received: 04/14/09 15:50

PrepDate: 04/19/09 10:04

BatchNo: 9278/R17046

FileID: 1-SAMP-E\Osiapr09\E041916.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	4.4	0.10		0.072	mg/L	50	04/19/09 16:12

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 04/21/09 10:49

441035

Project Supervisor: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT090414CL

W Order: 0904087

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 04/21/09 10:37

Col Type:

Lab ID: 0904087-006A

Client Sample ID: 0905549-009C,D

Collection Date: 04/13/09 15:20

Date Received: 04/14/09 15:50

PrepDate: 04/19/09 10:04

BatchNo: 9278/R17046

FileID: 1-SAMP-E:\Osiapr09\E041918.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.61	0.040	0.028	8015M/RSK175M (RSK 175)	mg/L	20	04/19/09 16:34

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 04/21/09 10:49

441036

Project Supervisor: Anthony Crescenzi

385

15



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT090414CL

W Order: 0904087

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 04/21/09 10:37

Col Type:

Lab ID: 0904087-007A

Client Sample ID: 0905549-010C,D

Collection Date: 04/13/09 15:40

Date Received: 04/14/09 15:50

PrepDate: 04/19/09 10:04

BatchNo: 9278/R17046

FileID: 1-SAMP-E:\Osiapr09\E041919.r

Sample Size: 33 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							8015M/RSK175M (RSK 175)
Methane	0.0049	0.0019		0.0014	mg/L	1	04/19/09 16:44

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 04/21/09 10:49

441037

Project Supervisor: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT090414CL

W Order: 0904087

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 04/21/09 10:37

Col Type:

Lab ID: 0904087-008A

Client Sample ID: 0905549-011C,D

Collection Date: 04/13/09 16:40

Date Received: 04/14/09 15:50

PrepDate: 04/19/09 10:04

BatchNo: 9278/R17046

FileID: 1-SAMP-B:\Osiapr09\E041920.r

Sample Size: 33 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.051	0.0019		0.0014	mg/L	1	04/19/09 16:55

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 04/21/09 10:49

441038

Project Supervisor: Anthony Crescenzi

387

17

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-111 (04/09) LSL Sample ID: 0905549-001

Location:

Sampled: 04/13/09 11:15 Sampled By: RS

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(6)	Dissolved Gases					
	Methane	0.040	mg/l		4/19/09 12:59	BL
(1)	EPA 200.7 Total Hardness as CaCO3					
	Hardness, Total	490	mg/l	4/15/09	4/27/09	DP
(1)	EPA 350.1, Rev 2.0 Ammonia					
	Ammonia as N	<0.03	mg/l		4/27/09	DRB
(1)	EPA 8260 BTEX					
	Benzene	<1	ug/l		4/16/09	CRT
	Ethyl benzene	<1	ug/l		4/16/09	CRT
	Xylenes (Total)	<1	ug/l		4/16/09	CRT
	Surrogate (1,2-DCA-d4)	108	%R		4/16/09	CRT
	Surrogate (Tol-d8)	90	%R		4/16/09	CRT
	Surrogate (4-BFB)	94	%R		4/16/09	CRT
(1)	EPA Method 300.0 A					
	Nitrate as N	<0.1	mg/l		4/14/09 19:37	RAF
	Sulfate	45	mg/l		4/14/09 19:37	RAF
(1)	SM 18 2320B, Alkalinity as CaCO3					
	Bicarbonate Alkalinity as CaCO3	360	mg/l		4/16/09	EM
	Carbonate Alkalinity as CaCO3	<3	mg/l		4/16/09	EM
	Hydroxide Alkalinity as CaCO3	<3	mg/l		4/16/09	EM

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-Trip Blank (04/09) LSL Sample ID: 0905549-002

Location:

Sampled: 04/13/09 0:00 Sampled By:

Sample Matrix: TB

Analytical Method		Prep		Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		4/16/09	CRT
Ethyl benzene	<1	ug/l		4/16/09	CRT
Xylenes (Total)	<1	ug/l		4/16/09	CRT
Surrogate (1,2-DCA-d4)	109	%R		4/16/09	CRT
Surrogate (Tol-d8)	93	%R		4/16/09	CRT
Surrogate (4-BFB)	94	%R		4/16/09	CRT

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-EB (04/09)

LSL Sample ID: 0905549-003

Location:

Sampled: 04/13/09 11:20

Sampled By: RS

Sample Matrix: QC, DI

Analytical Method		Prep		Analysis		Analyst
Analyte	Result	Units	Date	Date & Time	Initials	
(6) Dissolved Gases						
Methane	<0.002	mg/l		4/19/09 13:37		BL
(1) EPA 200.7 Total Hardness as CaCO3						
Hardness, Total	<7	mg/l	4/15/09	4/27/09		DP
(1) EPA 350.1, Rev 2.0 Ammonia						
Ammonia as N	<0.03	mg/l		4/27/09		DRB
(1) EPA 8260 BTEX						
Benzene	<1	ug/l		4/16/09		CRT
Ethyl benzene	<1	ug/l		4/16/09		CRT
Xylenes (Total)	<1	ug/l		4/16/09		CRT
Surrogate (1,2-DCA-d4)	107	%R		4/16/09		CRT
Surrogate (Tol-d8)	90	%R		4/16/09		CRT
Surrogate (4-BFB)	92	%R		4/16/09		CRT
(1) EPA Method 300.0 A						
Nitrate as N	<0.1	mg/l		4/14/09 19:55		RAF
Sulfate	<1	mg/l		4/14/09 19:55		RAF
(1) SM 18 2320B, Alkalinity as CaCO3						
Bicarbonate Alkalinity as CaCO3	16	mg/l		4/16/09		EM
Carbonate Alkalinity as CaCO3	<3	mg/l		4/16/09		EM
Hydroxide Alkalinity as CaCO3	<3	mg/l		4/16/09		EM

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-105 (04/09)

LSL Sample ID: 0905549-004

Location:

Sampled: 04/13/09 12:05

Sampled By: RS

Sample Matrix: NPW

Analytical Method		Prep		Analysis		Analyst
Analyte		Result	Units	Date	Date & Time	Initials
(6)	Dissolved Gases					
	Methane	2.8	mg/l		4/19/09 13:57	BL
(1)	EPA 200.7 Total Hardness as CaCO ₃					
	Hardness, Total	370	mg/l	4/15/09	4/27/09	DP
(1)	EPA 350.1, Rev 2.0 Ammonia					
	Ammonia as N	<0.03	mg/l		4/27/09	DRB
(1)	EPA 8260 BTEX					
	Benzene	6.2	ug/l		4/16/09	CRT
	Ethyl benzene	120	ug/l		4/16/09	CRT
	Xylenes (Total)	260	ug/l		4/16/09	CRT
	Surrogate (1,2-DCA-d4)	103	%R		4/16/09	CRT
	Surrogate (Tol-d8)	90	%R		4/16/09	CRT
	Surrogate (4-BFB)	92	%R		4/16/09	CRT
(1)	EPA Method 300.0 A					
	Nitrate as N	0.21	mg/l		4/14/09 20:12	RAF
	Sulfate	8.1	mg/l		4/14/09 20:12	RAF
(1)	SM 18 2320B, Alkalinity as CaCO ₃					
	Bicarbonate Alkalinity as CaCO ₃	380	mg/l		4/16/09	EM
	Carbonate Alkalinity as CaCO ₃	<3	mg/l		4/16/09	EM
	Hydroxide Alkalinity as CaCO ₃	<3	mg/l		4/16/09	EM

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt DeWitt, NY

Sample ID: ANG-MW-112 (04/09)

LSL Sample ID: 0905549-007

Location:

Sampled: 04/13/09 12:37

Sampled By: RS

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(6)	Dissolved Gases					
	Methane	3.0	mg/l		4/19/09 15:51	BL
(1)	EPA 200.7 Total Hardness as CaCO3					
	Hardness, Total	570	mg/l	4/15/09	4/27/09	DP
(1)	EPA 350.1, Rev 2.0 Ammonia					
	Ammonia as N	<0.03	mg/l		4/27/09	DRB
(1)	EPA 8260 BTEX					
	Benzene	13	ug/l		4/17/09	CRT
	Ethyl benzene	250	ug/l		4/17/09	CRT
	Xylenes (Total)	480	ug/l		4/17/09	CRT
	Surrogate (1,2-DCA-d4)	103	%R		4/17/09	CRT
	Surrogate (Tol-d8)	91	%R		4/17/09	CRT
	Surrogate (4-BFB)	89	%R		4/17/09	CRT
(1)	EPA Method 300.0 A					
	Nitrate as N	<0.1	mg/l		4/14/09 21:05	RAF
	Sulfate	11	mg/l		4/14/09 21:05	RAF
(1)	SM 18 2320B, Alkalinity as CaCO3					
	Bicarbonate Alkalinity as CaCO3	360	mg/l		4/16/09	EM
	Carbonate Alkalinity as CaCO3	<3	mg/l		4/16/09	EM
	Hydroxide Alkalinity as CaCO3	<3	mg/l		4/16/09	EM

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-Dup (04/09) LSL Sample ID: 0905549-008

Location:

Sampled: 04/13/09 0:00 Sampled By: RS

Sample Matrix: QC, NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	4.4	mg/l		4/19/09 16:12	BL
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	580	mg/l	4/15/09	4/27/09	DP
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		4/27/09	DRB
(1) EPA 8260 BTEX					
Benzene	16	ug/l		4/17/09	CRT
Ethyl benzene	310	ug/l		4/17/09	CRT
Xylenes (Total)	590	ug/l		4/17/09	CRT
Surrogate (1,2-DCA-d4)	104	%R		4/17/09	CRT
Surrogate (Tol-d8)	93	%R		4/17/09	CRT
Surrogate (4-BFB)	91	%R		4/17/09	CRT
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		4/14/09 21:23	RAF
Sulfate	12	mg/l		4/14/09 21:23	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	410	mg/l		4/16/09	EM
Carbonate Alkalinity as CaCO3	<3	mg/l		4/16/09	EM
Hydroxide Alkalinity as CaCO3	<3	mg/l		4/16/09	EM

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-19 (04/09)

LSL Sample ID: 0905549-009

Location:

Sampled: 04/13/09 15:20

Sampled By: RS

Sample Matrix: NPW

Analytical Method		Prep		Analysis		Analyst
Analyte	Result	Units	Date	Date & Time	Initials	
(6) Dissolved Gases						
Methane	0.61	mg/l		4/19/09 16:34		BL
(1) EPA 200.7 Total Hardness as CaCO ₃						
Hardness, Total	400	mg/l	4/15/09	4/27/09		DP
(1) EPA 350.1, Rev 2.0 Ammonia						
Ammonia as N	<0.03	mg/l		4/27/09		DRB
(1) EPA 8260 BTEX						
Benzene	0.71 J	ug/l		4/17/09		CRT
<i>J = estimated value.</i>						
Ethyl benzene	17	ug/l		4/17/09		CRT
Xylenes (Total)	20	ug/l		4/17/09		CRT
Surrogate (1,2-DCA-d4)	106	%R		4/17/09		CRT
Surrogate (Tol-d8)	94	%R		4/17/09		CRT
Surrogate (4-BFB)	92	%R		4/17/09		CRT
(1) EPA Method 300.0 A						
Nitrate as N	0.45	mg/l		4/14/09 21:40		RAF
Sulfate	20	mg/l		4/14/09 21:40		RAF
(1) SM 18 2320B, Alkalinity as CaCO ₃						
Bicarbonate Alkalinity as CaCO ₃	330	mg/l		4/16/09		EM
Carbonate Alkalinity as CaCO ₃	<3	mg/l		4/16/09		EM
Hydroxide Alkalinity as CaCO ₃	<3	mg/l		4/16/09		EM

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt DeWitt, NY

Sample ID: ANG-MW-107 (04/09) LSL Sample ID: 0905549-010

Location:

Sampled: 04/13/09 15:40 Sampled By: RS

Sample Matrix: NPW

Analytical Method		Prep		Analysis		Analyst
Analyte	Result	Units	Date	Date & Time	Initials	
(6) Dissolved Gases						
Methane	0.0049	mg/l		4/19/09 16:44	BL	
(1) EPA 200.7 Total Hardness as CaCO ₃						
Hardness, Total	200	mg/l	4/15/09	4/27/09	DP	
(1) EPA 350.1, Rev 2.0 Ammonia						
Ammonia as N	<0.03	mg/l		4/27/09	DRB	
(1) EPA 8260 BTEX						
Benzene	<1	ug/l		4/17/09	CRT	
Ethyl benzene	<1	ug/l		4/17/09	CRT	
Xylenes (Total)	0.27 J	ug/l		4/17/09	CRT	
<i>J = estimated value.</i>						
Surrogate (1,2-DCA-d4)	105	%R		4/17/09	CRT	
Surrogate (Tol-d8)	91	%R		4/17/09	CRT	
Surrogate (4-BFB)	94	%R		4/17/09	CRT	
(1) EPA Method 300.0 A						
Nitrate as N	2.1	mg/l		4/14/09 21:58	RAF	
Sulfate	15	mg/l		4/14/09 21:58	RAF	
(1) SM 18 2320B, Alkalinity as CaCO ₃						
Bicarbonate Alkalinity as CaCO ₃	200	mg/l		4/16/09	EM	
Carbonate Alkalinity as CaCO ₃	<3	mg/l		4/16/09	EM	
Hydroxide Alkalinity as CaCO ₃	<3	mg/l		4/16/09	EM	

ERM, Inc. - DeWitt Dewitt, NY

LSL Sample ID: 0905549-011

Sampled By: RS

Sample Matrix: NPW

Analytical Method	Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(6)	Dissolved Gases					
	Methane	0.051	mg/l		4/19/09 16:55	BL
(1)	EPA 200.7 Total Hardness as CaCO3					
	Hardness, Total	450	mg/l	4/15/09	4/27/09	DP
(1)	EPA 350.1, Rev 2.0 Ammonia					
	Ammonia as N	<0.03	mg/l		4/27/09	DRB
(1)	EPA 8260 BTEX					
	Benzene	<1	ug/l		4/17/09	CRT
	Ethyl benzene	<1	ug/l		4/17/09	CRT
	Xylenes (Total)	<1	ug/l		4/17/09	CRT
	Surrogate (1,2-DCA-d4)	107	%R		4/17/09	CRT
	Surrogate (Tol-d8)	93	%R		4/17/09	CRT
	Surrogate (4-BFB)	95	%R		4/17/09	CRT
(1)	EPA Method 300.0 A					
	Nitrate as N	<0.1	mg/l		4/14/09 22:15	RAF
	Sulfate	49	mg/l		4/14/09 22:15	RAF
(1)	SM 18 2320B, Alkalinity as CaCO3					
	Bicarbonate Alkalinity as CaCO3	390	mg/l		4/16/09	EM
	Carbonate Alkalinity as CaCO3	<3	mg/l		4/16/09	EM
	Hydroxide Alkalinity as CaCO3	<3	mg/l		4/16/09	EM

APPENDIX D

QA/QC EVALUATION RESULTS

**DATA USABILITY SUMMARY REPORT (DUSR)
ANG-HANCOCK FACILITY
SYRACUSE, NEW YORK
GROUND WATER SAMPLE ANALYSES
ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)
PROJECT NUMBER 0086335
LIFE SCIENCE LABORATORIES, INC.
SAMPLE DELIVERY GROUP (SDG) NUMBER 0913409**



Deliverables:

The above referenced data package for thirteen (13) ground water samples, two (2) blind field duplicate samples, two (2) trip blanks, and two (2) sets of matrix spike/matrix spike duplicate (MS/MSD) samples contains all required deliverables as stipulated under the 2005 New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) for Category B deliverables.

The sample specific analyses included Benzene, Ethylbenzene and Xylene (BEX) analyzed by United States Environmental Protection Agency (USEPA) SW-846 Method 8260B and Methane analyzed by USEPA SW-846 Method 8015 in accordance with "Test Methods for Evaluating Solid Wastes, SW-846 Third Edition, Final Update III, December 1996". The samples were also analyzed for Total Hardness by calculation/metals by USEPA SW-846 Method 200.7 in accordance with "40 CFR 136, Category A and B Parameters in Water and Wastewater". In addition, the samples were analyzed for Nitrate and Sulfate by USEPA Method 300.0; Alkalinity by SM 18 2320B; and Ammonia by USEPA Method 350.2.

The data have been validated according to the protocols and quality control (QC) requirements of the ASP; the National Functional Guidelines for Organic Data Review (October 1999); the National Functional Guidelines for Inorganic Data Review (July 2002); the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-24, Revision 2, October 2006: Validating Volatile Organic Compounds by SW-846 Method 8260B; and the reviewer's professional judgment.

The validation report pertains to the following ground water samples collected from 29 July to 5 August 2009:

<u>Samples</u>	<u>QC Samples</u>	<u>SDG</u> *
ANG-GP-142	ANG-GP-Dupe - Blind Field Duplicate of ANG-GP-142	0913409
ANG-GP-143	ANG- GP-143 MS/MSD	
ANG-GP-144	ANG-Trip Blank	
ANG-GP-145		
ANG-GP-146		
ANG-MW-19-0809	ANG-TB-0809	0913995
ANG-MW-105-0809		
ANG-MW-106-0809		
ANG-MW-107-0809		
ANG-MW-111-0809	ANG-MW-111-0809 MS/MSD	
ANG-MW-112-0809	ANG-DUP-0809 - Blind Field Duplicate of ANG-MW-112-0809	
ANG-MW-113-0809		
ANG-MW-114-0809		

* Note that lab generated SDGs each day upon receipt of samples, and later combined these SDGs into one report (SDG 0913409).

Organics

The following items/criteria were reviewed for this report:

- Case narrative and deliverables compliance
- Holding times and sample preservation (including pH and temperature)
- Surrogate Compound recoveries, summary and data
- Matrix Spike/ Matrix Spike Duplicate (MS/MSD) results, recoveries, summary and data
- Laboratory Check Sample (LCS), recoveries, summary and data
- Method blank summary and data
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Trip Blank sample results
- Blind Field Duplicate sample results
- Organic analysis data sheets (Form I)
- GC/MS and GC chromatograms, mass spectra and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification

The items listed above were technically and contractually in compliance with SW-846 protocols with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

Volatiles

- Numerous samples were run at dilutions due to high levels of target and/or non-target compounds, causing elevated reporting limits. The laboratory has reported the final result only on the Form I. No qualification of the sample data is required; however, the data user should be aware of the elevated detection limits.
- Samples ANG-MW-19-0809, ANG-MW-DUP-0809, and ANG-MW-112-0809 were rerun at a 5x dilution due to high levels of target compounds. The rerun samples are denoted by the laboratory as ANG-MW-19RE, ANG-MW-DUPRE, and ANG-MW-112RE, respectively. For these samples, all values should be used from the original analysis except those compounds which were above the linear range of the instrument in the original analysis (i.e., flagged with an "E").
- Sample ANG-MW-105-0809 was rerun by the laboratory due to the suspected carryover of Ethylbenzene. The rerun sample is denoted by the laboratory as ANG-MW-105RE. For this sample, all values should be used from the original analysis except the Ethylbenzene value for which carryover was suspected in the original run.
- The surrogate recovery for ANG-MW-112RE is high (1,2-DCA-d4 is 132%; QC limit 70-130%), indicating that the sample results are possibly biased high. Therefore, the sample results for ANG-MW-112RE with positive detections are considered estimated and are qualified "J".

Methane

- The following table includes samples that were analyzed at dilutions due to the sample matrix (in addition to elevated Methane levels in some samples), and the associated dilution factor. No qualification of the sample data is required.

Sample	Dilution Factor
ANG-MW-19-0809	50x
ANG-DUP-0809	50x
ANG-MW-105-0809	50x
ANG-MW-112-0809	50x

- The MS/MSD for Methane is reported as “not determined”. Due to the fact that the recovery for the LCS was within the QC limits, it is the reviewer’s professional opinion that qualification of the sample data is not required.

Inorganics

The following items/criteria were reviewed:

- Case narrative and deliverable requirements
- Holding times and sample preservation
- Detection limits
- Inorganic analysis data sheets (Form I)
- Initial and continuing calibration verifications
- Low and High Calibration Check standard analysis
- Lab Blank results
- Blind Field Duplicate sample results
- ICP interference check sample analysis
- Matrix Spike analysis
- Duplicate Analysis (metals)
- Matrix Spike Duplicate analysis
- Laboratory Control Sample (LCS) results

The items listed above were technically and contractually in compliance with SW-846 protocols with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

Metals

- The Calcium value used to calculate the Total Hardness for sample ANG-MW-113-0809 was slightly higher than the linear range of the instrument. Therefore, the Total Hardness result for ANG-MW-113-0809 is possibly biased and has been qualified with a “J”.

- The first continuing calibration verification (CCV) sample was slightly above the QC limit for Magnesium (110.32%; QC limit is 110%). All other CCVs associated with the sample analysis were within the QC limits. It is the reviewer's professional opinion that no qualification of the sample data is required.

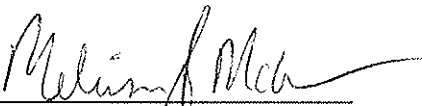
General Chemistry

- No qualification of the sample data is required.

Package Summary:

All data are valid and usable with qualifications as noted in this review.

Signed:



Melissa A. McGinnis
Project Scientist

Dated: 18 December 2009

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

GP-142Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913409-002Sample wt/vol: 25 (g/ml) ML Lab File ID: K01696SLevel: (low/med) LOW Date Received: 7/30/2009% Moisture: not dec. NA Date Analyzed: 8/5/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

GP-143Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913409-003Sample wt/vol: 25 (g/ml) ML Lab File ID: K01697SLevel: (low/med) LOW Date Received: 7/30/2009% Moisture: not dec. NA Date Analyzed: 8/5/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

GP-144Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913409-006Sample wt/vol: 25 (g/ml) ML Lab File ID: K01698SLevel: (low/med) LOW Date Received: 7/30/2009% Moisture: not dec. NA Date Analyzed: 8/5/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

GP-145Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913409-007Sample wt/vol: 25 (g/ml) ML Lab File ID: K01699SLevel: (low/med) LOW Date Received: 7/30/2009% Moisture: not dec. NA Date Analyzed: 8/5/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

GP-146Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913409-008Sample wt/vol: 25 (g/ml) ML Lab File ID: K01700SLevel: (low/med) LOW Date Received: 7/30/2009% Moisture: not dec. NA Date Analyzed: 8/5/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

GP-DUPE

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913409-001Sample wt/vol: 25 (g/ml) ML Lab File ID: K01701SLevel: (low/med) LOW Date Received: 7/30/2009% Moisture: not dec. NA Date Analyzed: 8/5/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANKLab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913409-009Sample wt/vol: 25 (g/ml) ML Lab File ID: K01702SLevel: (low/med) LOW Date Received: 7/30/2009% Moisture: not dec. NA Date Analyzed: 8/5/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-114Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913995-001Sample wt/vol: 10 (g/ml) ML Lab File ID: C11896SLevel: (low/med) LOW Date Received: 8/6/2009% Moisture: not dec. NA Date Analyzed: 8/11/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-113Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913995-002Sample wt/vol: 10 (g/ml) ML Lab File ID: C11897SLevel: (low/med) LOW Date Received: 8/6/2009% Moisture: not dec. NA Date Analyzed: 8/11/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-19Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913995-003 2XSample wt/vol: 10 (g/ml) ML Lab File ID: C11898SLevel: (low/med) LOW Date Received: 8/6/2009% Moisture: not dec. NA Date Analyzed: 8/11/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	6.0	
100-41-4	Ethylbenzene	500	E
108-38-3	m/p-Xylene	500	E
95-47-6	o-Xylene	10	

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-19RE

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913995-003 5XSample wt/vol: 10 (g/ml) ML Lab File ID: C11931SLevel: (low/med) LOW Date Received: 8/6/2009% Moisture: not dec. NA Date Analyzed: 8/12/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 5.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	7.0	
100-41-4	Ethylbenzene	410	
108-38-3	m/p-Xylene	760	
95-47-6	o-Xylene	5	8

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

DUP

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913995-004Sample wt/vol: 10 (g/ml) ML Lab File ID: C11899SLevel: (low/med) LOW Date Received: 8/6/2009% Moisture: not dec. NA Date Analyzed: 8/11/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	6.5	
100-41-4	Ethylbenzene	200	1
108-38-3	m/p-Xylene	170	
95-47-6	o-Xylene	2.8	

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-DUPRE

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913995-004 5XSample wt/vol: 10 (g/ml) ML Lab File ID: C11932SLevel: (low/med) LOW Date Received: 8/6/2009% Moisture: not dec. NA Date Analyzed: 8/12/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 5.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	7.9	
100-41-4	Ethylbenzene	300	
108-38-3	m,p-Xylene	480	
95-47-6	o-Xylene	5	5

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-105Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913995-005Sample wt/vol: 10 (g/ml) ML Lab File ID: C11900SLevel: (low/med) LOW Date Received: 8/6/2009% Moisture: not dec. NA Date Analyzed: 8/11/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	3.3	
100-41-4	Chlorobenzene	4.0	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

* Suspect carryover, reanalyzed.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-105RE

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913995-005Sample wt/vol: 10 (g/ml) ML Lab File ID: C11933SLevel: (low/med) LOW Date Received: 8/6/2009% Moisture: not dec. NA Date Analyzed: 8/12/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	2.1	
100-41-4	Ethylbenzene	1	U
108-38-3	m,p-xylene	1	U
95-47-6	o-xylene	1	U

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-111Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913995-006Sample wt/vol: 10 (g/ml) ML Lab File ID: C11901SLevel: (low/med) LOW Date Received: 8/6/2009% Moisture: not dec. NA Date Analyzed: 8/11/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-106Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913995-009Sample wt/vol: 10 (g/ml) ML Lab File ID: C11904SLevel: (low/med) LOW Date Received: 8/6/2009% Moisture: not dec. NA Date Analyzed: 8/11/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-107Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913995-010Sample wt/vol: 10 (g/ml) ML Lab File ID: C11905SLevel: (low/med) LOW Date Received: 8/6/2009% Moisture: not dec. NA Date Analyzed: 8/11/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-112Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913995-011 2XSample wt/vol: 10 (g/ml) ML Lab File ID: C11906SLevel: (low/med) LOW Date Received: 8/6/2009% Moisture: not dec. NA Date Analyzed: 8/11/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	6.9	
100-41-4	Ethylbenzene	200	100
108-38-3	m/p-Xylene	160	
95-47-6	o-Xylene	2.5	

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-112RELab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913995-011 5XSample wt/vol: 10 (g/ml) ML Lab File ID: C11934SLevel: (low/med) LOW Date Received: 8/6/2009% Moisture: not dec. NA Date Analyzed: 8/12/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 5.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	20	
100-41-4	Ethylbenzene	300	J
108-38-3	m,p-xylene	170	
95-47-6	o-xylene	5	1

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANKLab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0913409Matrix: (soil/water) WATER Lab Sample ID: 0913995-012Sample wt/vol: 10 (g/ml) ML Lab File ID: C11907SLevel: (low/med) LOW Date Received: 8/6/2009% Moisture: not dec. NA Date Analyzed: 8/11/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG MW-114-
0809**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0913409
Matrix: (soil/water) WATER Lab Sample ID: 0913995-001
Level: MED Date Received: 08/06/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	340			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	62			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG MW-113-
0809**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0913409
Matrix: (soil/water) WATER Lab Sample ID: 0913995-002
Level: MED Date Received: 08/06/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	310			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	52			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG MW-19-
0809**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0913409
Matrix: (soil/water) WATER Lab Sample ID: 0913995-003
Level: MED Date Received: 08/06/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.077			W
	Bicarbonate Alkalinity as CaCO3	330			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	6.7			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ANG DUP-0809

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0913409
Matrix: (soil/water) _____ Lab Sample ID: 0913995-004
Level: MED Date Received: 08/06/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) _____

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	330			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	10			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG MW-105-
0809**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0913409
Matrix: (soil/water) WATER Lab Sample ID: 0913995-005
Level: MED Date Received: 08/06/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	320			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	25			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG MW-111-
0809**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0913409
Matrix: (soil/water) WATER Lab Sample ID: 0913995-006
Level: MED Date Received: 08/06/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	330			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	48			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG MW-106-
0809**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0913409
Matrix: (soil/water) WATER Lab Sample ID: 0913995-009
Level: MED Date Received: 08/06/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	340			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	48			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG MW-107-
0809**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0913409
Matrix: (soil/water) WATER Lab Sample ID: 0913995-010
Level: MED Date Received: 08/06/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.079			W
	Bicarbonate Alkalinity as CaCO3	190			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.41			I
14808-79-8	Sulfate	45			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG MW-112-
0809**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0913409
Matrix: (soil/water) WATER Lab Sample ID: 0913995-011
Level: MED Date Received: 08/06/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	330			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	11			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____



Life Science Laboratories, Inc.

5000 Brittenfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc. Lab ID: 0908021-001A
Project: ILT090806CL Client Sample ID: 0913995-001C,D
W Order: 0908021 Collection Date: 08/05/09 16:00
Matrix: WATER Date Received: 08/07/09 14:52
Inst. ID: GCOS 17E Sample Size: 32 mL PrepDate: 08/12/09 11:25
ColumnID: Alumina %Moisture: BatchNo: 9856/R18098
Revision: 08/13/09 14:46 TestCode: 8015W RSK175 FileID: 1-SAMP-E:\OsiAug09\E081205.r
Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.0050		0.0020	0.0014	mg/L	1	08/12/09 13:56

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

536

Print Date: 08/13/09 14:46

465755

Project S

: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.
Project: ILT090806CL
W Order: 0908021
Matrix: WATER
Inst. ID: GCOS 17E
ColumnID: Alumina
Revision: 08/13/09 14:46
Col Type:
Lab ID: 0908021-002A
Client Sample ID: 0913995-002C,D
Collection Date: 08/05/09 17:05
Date Received: 08/07/09 14:52
PrepDate: 08/12/09 11:25
BatchNo: 9856/R18098
TestCode: 8015W RSK175
FileID: I-SAMP-E:\Osiang09\B081206.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M	(RSK 175)	
Methane	0.020	0.0020		0.0014	mg/L	1	08/12/09 14:12

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 08/13/09 14:46

465756

Project S

537

: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.
Project: ILT090806CL
W Order: 0908021
Matrix: WATER
Inst. ID: GCOS 17E
ColumnID: Alumina
Revision: 08/13/09 14:46
Col Type:
Lab ID: 0908021-003A
Client Sample ID: 0913995-003C,D
Collection Date: 08/05/09 14:15
Date Received: 08/07/09 14:52
PrepDate: 08/12/09 11:25
BatchNo: 9856/R18098
TestCode: 8015W RSK175
FileID: 1-SAMP-E:\Osiang09\E081208.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.98	0.10	0.072	mg/L	50	08/12/09 14:34	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 08/13/09 14:46

465757

Project S

538

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.
Project: ILT090806CL
W Order: 0908021
Matrix: WATER
Inst. ID: GCOS 17E
ColumnID: Alumina
Revision: 08/13/09 14:46
Col Type:
Lab ID: 0908021-004A
Client Sample ID: 0913995-004C,D
Collection Date: 08/05/09 0:00
Date Received: 08/07/09 14:52
PrepDate: 08/12/09 11:25
BatchNo: 9856/R18098
TestCode: 8015W RSK175
FileID: 1-SAMP-E:\OsiAug09\B081210.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M	(RSK 175)	
Methane	1.2	0.10		0.072	mg/L	50	08/12/09 14:58

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

539

Print Date: 08/13/09 14:46

465758

Project

Anthony Crescenzi

13



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT090806CL

W Order: 0908021

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 08/13/09 14:46

Col Type:

Lab ID: 0908021-005A

Client Sample ID: 0913995-005C,D

Collection Date: 08/05/09 14:15

Date Received: 08/07/09 14:52

PrepDate: 08/12/09 11:25

BatchNo: 9856/R18098

FileID: 1-SAMP-E:\OsiAug09\E081213.r

Sample Size: 32 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M	(RSK 175)	
Methane	1.5	0.10		0.070	mg/L	50	08/12/09 15:30

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Print/Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 08/13/09 14:46

465760

Project

540

By: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.
Project: ILT090806CL
W Order: 0908021
Matrix: WATER
Inst. ID: GCOS 17E
ColumnID: Alumina
Revision: 08/13/09 14:46
Col Type:

Lab ID: 0908021-006A
Client Sample ID: 0913995-006C,D
Collection Date: 08/05/09 10:45
Date Received: 08/07/09 14:52
PrepDate: 08/12/09 11:25
BatchNo: 9856/R18098
FileID: I-SAMP-E:\Osiang09\E081214.r

Sample Size: 31 mL
%Moisture:
TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.051	0.0021	0.0014	mg/L	1	08/12/09 15:40	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 08/13/09 14:46

465761

Project S

541

Anthony Crescenzi

15



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc. Lab ID: 0908021-007A
Project: ILT090806CL Client Sample ID: 0913995-007C,D
W Order: 0908021 Collection Date: 08/05/09 10:45
Matrix: WATER Date Received: 08/07/09 14:52
Inst. ID: GCOS 17E Sample Size: 31 mL PrepDate: 08/12/09 11:25
ColumnID: Alumina %Moisture: BatchNo: 9856/R18098
Revision: 08/13/09 14:46 TestCode: 8015W RSK175 FileID: 1-SAMP-E:\Osiang09\E081215.r
Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M	(RSK 175)	
Methane	0.054	0.0021		0.0014	mg/L	1	08/12/09 16:43

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Print/Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

Print Date: 08/13/09 14:46

465762

Project

542

:: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc. Lab ID: 0908021-008A
Project: ILT090806CL Client Sample ID: 0913995-008C,D
W Order: 0908021 Collection Date: 08/05/09 10:45
Matrix: WATER Date Received: 08/07/09 14:52
Inst. ID: GCOS 17E Sample Size: 31 mL PrepDate: 08/12/09 11:25
ColumnID: Alumina %Moisture: BatchNo: 9856/R18098
Revision: 08/13/09 14:46 TestCode: 8015W RSK175 FileID: 1-SAMP-E:\Osiang09\E081216.r
Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.042	0.0021		0.0014	mg/L	1	08/12/09 16:56

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 08/13/09 14:46

465763

Project S

543

: Anthony Crescenzi

17



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc. Lab ID: 0908021-009A
Project: ILT090806CL Client Sample ID: 0913995-009C,D
W Order: 0908021 Collection Date: 08/05/09 17:00
Matrix: WATER Date Received: 08/07/09 14:52
Inst. ID: GCOS 17E Sample Size: 31 mL PrepDate: 08/12/09 11:25
ColumnID: Alumina %Moisture: BatchNo: 9856/R18098
Revision: 08/13/09 14:46 TestCode: 8015W RSK175 FileID: 1-SAMP-E:\OsiAug09\E081217.r
Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.028	0.0021		0.0014	mg/L	1	08/12/09 17:08

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

544

Print Date: 08/13/09 14:46

465764

Project S

: Anthony Crescenzi

18



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc. Lab ID: 0908021-010A
Project: ILT090806CL Client Sample ID: 0913995-010C,D
W Order: 0908021 Collection Date: 08/05/09 0:00
Matrix: WATER Date Received: 08/07/09 14:52
Inst. ID: GCOS 17E Sample Size: 32 mL PrepDate: 08/12/09 11:25
ColumnID: Alumina %Moisture: BatchNo: 9856/R18098
Revision: 08/13/09 14:46 TestCode: 8015W RSK175 FileID: I-SAMP-E:\Osiang09\B081218.r
Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M	(RSK 175)	
Methane	0.033	0.0020		0.0014	mg/L	1	08/12/09 17:19

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 08/13/09 14:46

465765

Project

545

by: Anthony Crescenzi

19



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.
Project: ILT090806CL
W Order: 0908021
Matrix: WATER
Inst. ID: GCOS 17E
ColumnID: Alumina
Revision: 08/13/09 14:46
Col Type:
Lab ID: 0908021-011A
Client Sample ID: 0913995-011C,D
Collection Date: 08/05/09 10:35
Date Received: 08/07/09 14:52
PrepDate: 08/12/09 11:25
BatchNo: 9856/R18098
TestCode: 8015W RSK175
FileID: 1-SAMP-E:\OsiAug09\E081219.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	1.6	0.10		0.072	mg/L	50	08/12/09 17:35

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

546

Print Date: 08/13/09 14:46

465766

Project :

: Anthony Crescenzi

20



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc. Lab ID: 0908021-012A
Project: ILT090806CL Client Sample ID: 0913995-012C,D
W Order: 0908021 Collection Date: 08/05/09 10:35
Matrix: WATER Date Received: 08/07/09 14:52
Inst. ID: GCOS 17E Sample Size: 32 mL PrepDate: 08/12/09 11:25
ColumnID: Alumina %Moisture: BatchNo: 9856/R18098
Revision: 08/13/09 14:46 TestCode: 8015W RSK175 FileID: 1-SAMP-E:\Osiang09\E081220.r
Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.0025	0.0020	0.0014	8015M/RSK175M (RSK 175)	mg/L	1	08/12/09 17:49

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 08/13/09 14:46

465767

Project :

547

: Anthony Crescenzi

21

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-GP-Dupe LSL Sample ID: 0913409-001

Location:

Sampled: 07/29/09 0:00 Sampled By: RS/DM

Sample Matrix: QC, NPW

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		8/5/09	BD
Ethyl benzene	<1	ug/l		8/5/09	BD
Xylenes (Total)	<2	ug/l		8/5/09	BD
Surrogate (1,2-DCA-d4)	113	%R		8/5/09	BD
Surrogate (Tol-d8)	94	%R		8/5/09	BD
Surrogate (4-BFB)	119	%R		8/5/09	BD

Life Science Laboratories, Inc.

Page 2 of 10

Date Printed: 8/6/09

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL F , (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-GP-142 LSL Sample ID: 0913409-002

Location:

Sampled: 07/29/09 12:00 Sampled By: RS/DM

Sample Matrix: NPW

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		8/5/09	BD
Ethyl benzene	<1	ug/l		8/5/09	BD
Xylenes (Total)	<2	ug/l		8/5/09	BD
Surrogate (1,2-DCA-d4)	102	%R		8/5/09	BD
Surrogate (Tol-d8)	102	%R		8/5/09	BD
Surrogate (4-BFB)	108	%R		8/5/09	BD

Life Science Laboratories, Inc.

Page 3 of 10

Date Printed: 8/6/09

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL F ; (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-GP-143 LSL Sample ID: 0913409-003

Location:

Sampled: 07/29/09 13:10 Sampled By: RS/DM

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(1) EPA 8260 BTEX						
Benzene		<1	ug/l		8/5/09	BD
Ethyl benzene		<1	ug/l		8/5/09	BD
Xylenes (Total)		<2	ug/l		8/5/09	BD
Surrogate (1,2-DCA-d4)		105	%R		8/5/09	BD
Surrogate (Tol-d8)		101	%R		8/5/09	BD
Surrogate (4-BFB)		109	%R		8/5/09	BD

Life Science Laboratories, Inc.

Page 4 of 10

Date Printed: 8/6/09

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL 1 17, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

- - LABORATORY ANALYSIS REPORT - -

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-GP-144

LSL Sample ID: 0913409-006

Location:

Sampled: 07/29/09 14:40

Sampled By: RS/DM

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		8/5/09	BD
Ethyl benzene	<1	ug/l		8/5/09	BD
Xylenes (Total)	<2	ug/l		8/5/09	BD
Surrogate (1,2-DCA-d4)	104	%R		8/5/09	BD
Surrogate (Tol-d8)	101	%R		8/5/09	BD
Surrogate (4-BFB)	110	%R		8/5/09	BD

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-GP-145 LSL Sample ID: 0913409-007

Location:

Sampled: 07/29/09 15:45 Sampled By: RS/DM

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(1) EPA 8260 BTEX						
Benzene		<1	ug/l		8/5/09	BD
Ethyl benzene		<1	ug/l		8/5/09	BD
Xylenes (Total)		<2	ug/l		8/5/09	BD
Surrogate (1,2-DCA-d4)		104	%R		8/5/09	BD
Surrogate (Tol-d8)		102	%R		8/5/09	BD
Surrogate (4-BFB)		111	%R		8/5/09	BD

Life Science Laboratories, Inc.

Page 8 of 10

Date Printed: 8/6/09

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL 21 15, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

ERM, Inc. - DeWitt Dewitt, NY

0913409-008

Sampled By: RS/DM

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(U) EPA 8260 BTEX					
Benzene	<1	ug/l		8/5/09	BD
Ethyl benzene	<1	ug/l		8/5/09	BD
Xylenes (Total)	<2	ug/l		8/5/09	BD
Surrogate (1,2-DCA-d4)	110	%R		8/5/09	BD
Surrogate (Tol-d8)	99	%R		8/5/09	BD
Surrogate (4-BFB)	113	%R		8/5/09	BD

- - LABORATORY ANALYSIS REPORT - -

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-Trip Blank LSL Sample ID: 0913409-009

Location:

Sampled: 07/30/09 0:00 Sampled By:

Sample Matrix: TB

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		8/5/09	BD
Ethyl benzene	<1	ug/l		8/5/09	BD
Xylenes (Total)	<2	ug/l		8/5/09	BD
Surrogate (1,2-DCA-d4)	105	%R		8/5/09	BD
Surrogate (Tol-d8)	100	%R		8/5/09	BD
Surrogate (4-BFB)	115	%R		8/5/09	BD

Life Science Laboratories, Inc.

Page 10 of 10

Date Printed: 8/6/09

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL

23

s, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG MW-114-0809

LSL Sample ID: 0913995-001

Location:

Sampled: 08/05/09 16:00 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	0.0050	mg/L		8/12/09 13:56	
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	520	mg/l	8/11/09	8/19/09	DP
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		8/18/09	DRB
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		8/11/09	CRT
Ethyl benzene	<1	ug/l		8/11/09	CRT
Xylenes (Total)	<2	ug/l		8/11/09	CRT
Surrogate (1,2-DCA-d4)	101	%R		8/11/09	CRT
Surrogate (Tol-d8)	106	%R		8/11/09	CRT
Surrogate (4-BFB)	103	%R		8/11/09	CRT
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		8/7/09 12:39	RAF
Sulfate	62	mg/l		8/7/09 12:39	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	340	mg/l		8/11/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		8/11/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		8/11/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG MW-113-0809

LSL Sample ID:

0913995-002

Location:

Sampled: 08/05/09 17:05

Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	0.020	mg/L		8/12/09 14:12	
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	390	mg/l	8/11/09	8/19/09	DP
The Calcium value used in the hardness calculation was slightly higher than the instruments linear range					
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		8/18/09	DRB
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		8/11/09	CRT
Ethyl benzene	<1	ug/l		8/11/09	CRT
Xylenes (Total)	<2	ug/l		8/11/09	CRT
Surrogate (1,2-DCA-d4)	104	%R		8/11/09	CRT
Surrogate (Tol-d8)	104	%R		8/11/09	CRT
Surrogate (4-BFB)	100	%R		8/11/09	CRT
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		8/7/09 12:56	RAF
Sulfate	52	mg/l		8/7/09 12:56	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	310	mg/l		8/11/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		8/11/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		8/11/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG MW-19-0809

LSL Sample ID: 0913995-003

Location:

Sampled: 08/05/09 14:15

Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	0.98	mg/L		8/12/09 14:34	
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	560	mg/l	8/11/09	8/19/09	DP
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	0.077	mg/l		8/18/09	DRB
(1) EPA 8260 BTEX					
Benzene	6.0	ug/l		8/11/09	CRT
Ethyl benzene	410	ug/l		8/12/09	CRT
Xylenes (Total)	760	ug/l		8/12/09	CRT
Surrogate (1,2-DCA-d4)	103	%R		8/11/09	CRT
Surrogate (Tol-d8)	103	%R		8/11/09	CRT
Surrogate (4-BFB)	101	%R		8/11/09	CRT
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		8/7/09 11:46	RAF
Sulfate	6.7	mg/l		8/7/09 11:46	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	330	mg/l		8/11/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		8/11/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		8/11/09	TER

ERM, Inc. - DeWitt Dewitt, NY

Sample Matrix: QC, NPW

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG MW-105-0809

LSL Sample ID: 0913995-005

Location:

Sampled: 08/05/09 14:15

Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	1.5	mg/L		8/12/09 15:30	
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	370	mg/l	8/11/09	8/19/09	DP
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		8/18/09	DRB
(1) EPA 8260 BTEX					
Benzene	3.3	ug/l		8/11/09	CRT
Ethyl benzene	<1	ug/l		8/12/09	CRT
Xylenes (Total)	<2	ug/l		8/11/09	CRT
Surrogate (1,2-DCA-d4)	111	%R		8/11/09	CRT
Surrogate (Tol-d8)	103	%R		8/11/09	CRT
Surrogate (4-BFB)	96	%R		8/11/09	CRT
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		8/7/09 12:21	RAF
Sulfate	25	mg/l		8/7/09 12:21	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	320	mg/l		8/11/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		8/11/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		8/11/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG MW-111-0809

LSL Sample ID:

0913995-006

Location:

Sampled: 08/05/09 10:45

Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	0.051	mg/L		8/12/09 15:40	
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	600	mg/l	8/11/09	8/19/09	DP
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		8/18/09	DRB
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		8/11/09	CRT
Ethyl benzene	<1	ug/l		8/11/09	CRT
Xylenes (Total)	<2	ug/l		8/11/09	CRT
Surrogate (1,2-DCA-d4)	112	%R		8/11/09	CRT
Surrogate (Tol-d8)	103	%R		8/11/09	CRT
Surrogate (4-BFB)	98	%R		8/11/09	CRT
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		8/7/09 10:36	RAF
Sulfate	48	mg/l		8/7/09 10:36	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	330	mg/l		8/11/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		8/11/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		8/11/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG MW-106-0809

LSL Sample ID:

0913995-009

Location:

Sampled: 08/05/09 17:00

Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	0.028	mg/L		8/12/09 17:08	
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	550	mg/l	8/11/09	8/19/09	DP
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		8/18/09	DRB
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		8/11/09	CRT
Ethyl benzene	<1	ug/l		8/11/09	CRT
Xylenes (Total)	<2	ug/l		8/11/09	CRT
Surrogate (1,2-DCA-d4)	111	%R		8/11/09	CRT
Surrogate (Tol-d8)	104	%R		8/11/09	CRT
Surrogate (4-BFB)	98	%R		8/11/09	CRT
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		8/7/09 14:07	RAF
Sulfate	48	mg/l		8/7/09 14:07	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	340	mg/l		8/11/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		8/11/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		8/11/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG MW-107-0809

LSL Sample ID: 0913995-010

Location:

Sampled: 08/05/09 0:00

Sampled By: Client

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(6)	Dissolved Gases					
	Methane	0.033	mg/L		8/12/09 17:19	
(1)	EPA 200.7 Total Hardness as CaCO3					
	Hardness, Total	510	mg/l	8/11/09	8/19/09	DP
(1)	EPA 350.1, Rev 2.0 Ammonia					
	Ammonia as N	0.079	mg/l		8/18/09	DRB
(1)	EPA 8260 BTEX					
	Benzene	<1	ug/l		8/11/09	CRT
	Ethyl benzene	<1	ug/l		8/11/09	CRT
	Xylenes (Total)	<2	ug/l		8/11/09	CRT
	Surrogate (1,2-DCA-d4)	117	%R		8/11/09	CRT
	Surrogate (Tol-d8)	103	%R		8/11/09	CRT
	Surrogate (4-BFB)	100	%R		8/11/09	CRT
(1)	EPA Method 300.0 A					
	Nitrate as N	0.41	mg/l		8/7/09 14:24	RAF
	Sulfate	45	mg/l		8/7/09 14:24	RAF
(1)	SM 18 2320B, Alkalinity as CaCO3					
	Bicarbonate Alkalinity as CaCO3	190	mg/l		8/11/09	TER
	Carbonate Alkalinity as CaCO3	<3	mg/l		8/11/09	TER
	Hydroxide Alkalinity as CaCO3	<3	mg/l		8/11/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG MW-112-0809 LSL Sample ID: 0913995-011

Location:

Sampled: 08/05/09 10:35 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	1.6	mg/L		8/12/09 17:35	
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	530	mg/l	8/11/09	8/19/09	DP
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		8/18/09	DRB
(1) EPA 8260 BTEX					
Benzene	6.9	ug/l		8/11/09	CRT
Ethyl benzene	300	ug/l		8/12/09	CRT
Xylenes (Total)	170	ug/l		8/11/09	CRT
Surrogate (1,2-DCA-d4)	116	%R		8/11/09	CRT
Surrogate (Tol-d8)	103	%R		8/11/09	CRT
Surrogate (4-BFB)	102	%R		8/11/09	CRT
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		8/7/09 11:28	RAF
Sulfate	11	mg/l		8/7/09 11:28	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	330	mg/l		8/11/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		8/11/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		8/11/09	TER

Life Science Laboratories, Inc.

Page 12 of 13

Date Printed: 8/21/09

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL es, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

ERM, Inc. - DeWitt Dewitt, NY

LSL Sample ID: 0913995-012

Sampled By:

Analytical Method

Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		8/11/09	CRT
Ethyl benzene	<1	ug/l		8/11/09	CRT
Xylenes (Total)	<2	ug/l		8/11/09	CRT
Surrogate (1,2-DCA-d4)	108	%R		8/11/09	CRT
Surrogate (Tol-d8)	105	%R		8/11/09	CRT
Surrogate (4-BFB)	103	%R		8/11/09	CRT

DATA USABILITY SUMMARY REPORT (DUSR)
ANG-HANCOCK FACILITY
SYRACUSE, NEW YORK
GROUND WATER SAMPLE ANALYSES
ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)
PROJECT NUMBER 0086335
LIFE SCIENCE LABORATORIES, INC.
SAMPLE DELIVERY GROUP (SDG) NUMBER 0918965



Deliverables:

The above referenced data package for thirty-one (31) ground water samples, two (2) blind field duplicate samples, two (2) trip blanks, two (2) equipment blanks, and three (3) sets of matrix spike/matrix spike duplicate (MS/MSD) samples contains all required deliverables as stipulated under the 2005 New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) for Category B deliverables.

The sample specific analyses included Benzene, Ethylbenzene and Xylene (BEX) analyzed by United States Environmental Protection Agency (USEPA) SW-846 Method 8260B and Methane analyzed by USEPA SW-846 Method 8015 in accordance with *"Test Methods for Evaluating Solid Wastes, SW-846 Third Edition, Final Update III, December 1996"*. The samples were also analyzed for Total Hardness by calculation/metals by USEPA SW-846 Method 200.7 in accordance with *"40 CFR 136, Category A and B Parameters in Water and Wastewater"*. In addition, the samples were analyzed for Nitrate and Sulfate by USEPA Method 300.0; Alkalinity by SM 18 2320B; and Ammonia by USEPA Method 350.2.

The data have been validated according to the protocols and quality control (QC) requirements of the ASP; the National Functional Guidelines for Organic Data Review (October 1999); the National Functional Guidelines for Inorganic Data Review (July 2002); the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-24, Revision 2, October 2006: Validating Volatile Organic Compounds by SW-846 Method 8260B; and the reviewer's professional judgment.

The validation report pertains to the following ground water samples collected from 6 October to 12 October 2009:

<u>Samples</u>	<u>QC Samples</u>	<u>SDG</u> *
ANG-RW-1-10/09	ANG-TB-01-10/09	0918965
ANG-MW-11-10/09	ANG-TB-2-10/09	
ANG-MW-13-10/09	ANG-EB-01-10/09	
ANG-MW-14-10/09	ANG-EB-02-10/09	
ANG-MW-15-10/09	ANG-MW-15-10/09 MS/MSD	
ANG-MW-16-10/09		
ANG-MW-17-10/09		
ANG-MW-18-10/09		
ANG-MW-19-10/09	ANG-DUPE-2-10/09 - Blind Field Duplicate of ANG-MW-19-10/09	
ANG-MW-20-10/09		
ANG-MW-22-10/09		
ANG-MW-101-10/09		
ANG-MW-102-10/09		
ANG-MW-103-10/09		
ANG-MW-104-10/09		
ANG-MW-105-10/09		
ANG-MW-106-10/09		
ANG-MW-107-10/09		
ANG-MW-108-10/09		
ANG-MW-109-10/09		
ANG-MW-110-10/09		
ANG-MW-111-10/09		
ANG-MW-112-10/09	ANG-DUPE-01-10/09 - Blind Field Duplicate of ANG-MW-112-10/09	0918960
ANG-MW-113-10/09		
ANG-MW-114-10/09	ANG-MW-114-10/09 MS/MSD	
ANG-MW-2-10/09		
ANG-MW-3-10/09		
ANG-MW-4-10/09		
ANG-MW-5-10/09		
ANG-MW-8-10/09		
ANG-MW-9-10/09		

* Note that lab generated SDGs each day upon receipt of samples, and later combined these SDGs into one report (SDG 0918965).

Organics

The following items/criteria were reviewed for this report:

- Case narrative and deliverables compliance
- Holding times and sample preservation (including pH and

temperature)

- Surrogate Compound recoveries, summary and data
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) results, recoveries, summary and data
- Laboratory Check Sample (LCS), recoveries, summary and data
- Method blank summary and data
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Trip Blank sample results
- Blind Field Duplicate sample results
- Organic analysis data sheets (Form I)
- GC/MS and GC chromatograms, mass spectra and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification

The items listed above were technically and contractually in compliance with SW-846 protocols with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

Volatiles

- Numerous samples were run at dilutions due to high levels of target and/or non-target compounds, causing elevated reporting limits. The laboratory has reported the final result only on the Form I. No qualification of the sample data is required; however, the data user should be aware of the elevated detection limits.
- The Ethylbenzene result for sample MW-2-10/09 was qualified with an "E" value by the laboratory (sample result is 200 ug/L), and this sample was not rerun by the laboratory. Since the upper limit for Ethylbenzene is 200 ug/L, it appears that a software error cause the sample to be incorrectly flagged. Therefore, the "E" qualifier has been removed from the sample. No qualification of the sample data is required.
- Sample ANG-MW-11-10/09 was rerun at a 2x dilution due to high levels of non-target compounds. The rerun sample is denoted by the laboratory as ANG-MW-11RE. For this sample,

the results from the rerun should be used.

- Sample ANG-DUPE-2-10/09 was rerun at a 10x dilution due to high levels of target compounds. The rerun sample is denoted by the laboratory as ANG-DUPE-2RE. For this sample, all values should be used from the original analysis except those compounds which were above the linear range of the instrument in the original analysis (i.e., flagged with an "E").
- The surrogate recovery for ANG-DUPE-2-10/09 is high (Tol-d8 is 182%; QC limit 70-130%) and the surrogate recovery for ANG-DUPE-2RE is high (1,2-DCA-d4 is 140%; QC limit 70-130%), indicating that the sample results are possibly biased high. Therefore, positive sample results for these two samples are considered estimated and are qualified "J".
- The surrogate recovery for ANG-EB-02-10/09 is high (1,2-DCA-d4 is 137%; QC limit 70-130%), indicating that the sample results are possibly biased high. However, due to the fact that all parameters analyzed for this sample are non-detect, no qualification of the sample data is required.

Methane

- The following table includes samples that were analyzed at dilutions due to the sample matrix (in addition to elevated Methane levels in some samples), and the associated dilution factor. No qualification of the sample data is required.

Sample	Dilution Factor
ANG-MW-105-10/09	50x
ANG-MW-112-10/09	10x
ANG-DUP-01-10/09	5x
ANG-MW-11-10/09	50x
ANG-MW-17-10/09	50x
ANG-MW-19-10/09	50x
ANG-RW-1-10/09	50x

- The percent recovery (%R) for Methane was above QC limits in the MS/MSD analysis of sample ANG-MW-15-10/09 (453% and 706% respectively; QC limit 30-130%). This can be attributed to the elevated concentration of Methane in the unspiked sample. Since the Methane recoveries met QC criteria in the LCS

samples associated with this sample set, it is the reviewer's professional opinion that qualification of the sample data is not required.

Inorganics

The following items/criteria were reviewed:

- Case narrative and deliverable requirements
- Holding times and sample preservation
- Detection limits
- Inorganic analysis data sheets (Form I)
- Initial and continuing calibration verifications
- Low and High Calibration Check standard analysis
- Lab Blank results
- Blind Field Duplicate sample results
- ICP interference check sample analysis
- Matrix Spike analysis
- Duplicate Analysis (metals)
- Matrix Spike Duplicate analysis
- Laboratory Control Sample (LCS) results

The items listed above were technically and contractually in compliance with SW-846 protocols with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

Metals

- The Calcium value used to calculate the Total Hardness for sample ANG-DUP-01-10/09 was slightly higher than the linear range of the instrument. Therefore, the Total Hardness result for ANG-DUP-01-10/09 is possibly biased and has been qualified with a "J".
- The percent recovery (%R) associated with Total Hardness was below QC limits in the MS analysis of sample ANG-MW-15-10/09 (0%; QC limit 60-140%). This can be attributed to the elevated concentration in the unspiked sample. Since the recoveries met QC criteria in the LCS samples associated with this sample set, it is the reviewer's professional opinion that qualification of the sample data is not required.

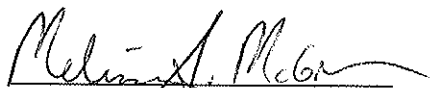
General Chemistry

- Sample ANG-EB-01-10/09 was run outside of the holding time limit for Nitrate. No additional equipment blank sample was available for analysis. It is the reviewer's professional opinion that no qualification of the sample data is required.

Package Summary:

All data are valid and usable with qualifications as noted in this review.

Signed:



Melissa A. McGinnis
Project Scientist

Dated: 18 December 2009

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-9

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918960-006Sample wt/vol: 10 (g/ml) ML Lab File ID: C12456SLevel: (low/med) LOW Date Received: 10/8/2009% Moisture: not dec. NA Date Analyzed: 10/22/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

DUP-01Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918695-013Sample wt/vol: 25 (g/ml) ML Lab File ID: K03525SLevel: (low/med) LOW Date Received: 10/7/2009% Moisture: not dec. NA Date Analyzed: 10/7/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	46	
108-38-3	m/p-Xylene	8.3	
95-47-6	o-Xylene	0.1	J

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918960-005Sample wt/vol: 10 (g/ml) ML Lab File ID: C12455SLevel: (low/med) LOW Date Received: 10/8/2009% Moisture: not dec. NA Date Analyzed: 10/21/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-5

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695

Matrix: (soil/water) WATER Lab Sample ID: 0918960-004

Sample wt/vol: 10 (g/ml) ML Lab File ID: C12454S

Level: (low/med) LOW Date Received: 10/8/2009

% Moisture: not dec. NA Date Analyzed: 10/21/2009

GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-4

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918960-003Sample wt/vol: 10 (g/ml) ML Lab File ID: C12453SLevel: (low/med) LOW Date Received: 10/8/2009% Moisture: not dec. NA Date Analyzed: 10/21/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-3

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918960-002Sample wt/vol: 10 (g/ml) ML Lab File ID: C12452SLevel: (low/med) LOW Date Received: 10/8/2009% Moisture: not dec. NA Date Analyzed: 10/21/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-2

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918960-001Sample wt/vol: 10 (g/ml) ML Lab File ID: C12451SLevel: (low/med) LOW Date Received: 10/8/2009% Moisture: not dec. NA Date Analyzed: 10/21/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	200	E
108-38-3	m/p-Xylene	348	
95-47-6	o-Xylene	17	

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB-01

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918695-015Sample wt/vol: 25 (g/ml) ML Lab File ID: K03524SLevel: (low/med) LOW Date Received: 10/7/2009% Moisture: not dec. NA Date Analyzed: 10/7/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.		COMPOUND		CONCENTRATION UNITS:	
				UG/L	Q
71-43-2		Benzene		1	U
100-41-4		Ethylbenzene		1	U
108-38-3		m/p-Xylene		1	U
95-47-6		o-Xylene		1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EB-01Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918695-014Sample wt/vol: 25 (g/ml) ML Lab File ID: K03523SLevel: (low/med) LOW Date Received: 10/7/2009% Moisture: not dec. NA Date Analyzed: 10/7/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-114Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918695-010Sample wt/vol: 25 (g/ml) ML Lab File ID: K03522SLevel: (low/med) LOW Date Received: 10/7/2009% Moisture: not dec. NA Date Analyzed: 10/7/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-113Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918695-009Sample wt/vol: 25 (g/ml) ML Lab File ID: K03521SLevel: (low/med) LOW Date Received: 10/7/2009% Moisture: not dec. NA Date Analyzed: 10/7/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-112 DLLab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918695-008 20XSample wt/vol: 25 (g/ml) ML Lab File ID: K03539SLevel: (low/med) LOW Date Received: 10/7/2009% Moisture: not dec. NA Date Analyzed: 10/8/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 20Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	10	U
100-41-4	Ethylbenzene	48	
108-38-3	m/p-Xylene	10	U
95-47-6	o-Xylene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-111

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918695-007Sample wt/vol: 25 (g/ml) ML Lab File ID: K03520SLevel: (low/med) LOW Date Received: 10/7/2009% Moisture: not dec. NA Date Analyzed: 10/7/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.		COMPOUND		CONCENTRATION UNITS:	
				UG/L	Q
71-43-2		Benzene		1	U
100-41-4		Ethylbenzene		1	U
108-38-3		m/p-Xylene		1	U
95-47-6		o-Xylene		1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-110

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918695-006Sample wt/vol: 25 (g/ml) ML Lab File ID: K03519SLevel: (low/med) LOW Date Received: 10/7/2009% Moisture: not dec. NA Date Analyzed: 10/7/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-107Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918695-005Sample wt/vol: 25 (g/ml) ML Lab File ID: K03518SLevel: (low/med) LOW Date Received: 10/7/2009% Moisture: not dec. NA Date Analyzed: 10/7/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.		COMPOUND		CONCENTRATION UNITS:	
				UG/L	Q
71-43-2		Benzene		1	U
100-41-4		Ethylbenzene		1	U
108-38-3		m/p-Xylene		1	U
95-47-6		o-Xylene		1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-106Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918695-004Sample wt/vol: 25 (g/ml) ML Lab File ID: K03517SLevel: (low/med) LOW Date Received: 10/7/2009% Moisture: not dec. NA Date Analyzed: 10/7/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-105Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918695-003Sample wt/vol: 25 (g/ml) ML Lab File ID: K03516SLevel: (low/med) LOW Date Received: 10/7/2009% Moisture: not dec. NA Date Analyzed: 10/7/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	16	
100-41-4	Ethylbenzene	8.6	
108-38-3	m/p-Xylene	14	
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-104Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918695-002Sample wt/vol: 25 (g/ml) ML Lab File ID: K03515SLevel: (low/med) LOW Date Received: 10/7/2009% Moisture: not dec. NA Date Analyzed: 10/7/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-103Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918695Matrix: (soil/water) WATER Lab Sample ID: 0918695-001Sample wt/vol: 25 (g/ml) ML Lab File ID: K03514SLevel: (low/med) LOW Date Received: 10/7/2009% Moisture: not dec. NA Date Analyzed: 10/7/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1.3	
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-103-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918695-001
Level: MED Date Received: 10/07/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	330			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	510			W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	33			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-104-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918695-002
Level: MED Date Received: 10/07/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	370			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	500			W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	41			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-105-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918695-003
Level: MED Date Received: 10/07/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	360			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	460			W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	14			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-106-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918695-004
Level: MED Date Received: 10/07/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	340			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	380			W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	36			I

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-107-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918695-005
Level: MED Date Received: 10/07/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	180			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	330			W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.54			I
14808-79-8	Sulfate	42			I

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-110-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918695-006
Level: MED Date Received: 10/07/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	380			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	570			W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	57			I

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-111-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918695-007
Level: MED Date Received: 10/07/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	360			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	540			W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	49			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-112-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918695-008
Level: MED Date Received: 10/07/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.051			W
	Bicarbonate Alkalinity as CaCO3	340			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	510			W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	1.4			I
14808-79-8	Sulfate	8.4			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-113-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918695-009
Level: MED Date Received: 10/07/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	340			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	540			W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	62			I

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-114-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918695-010
Level: MED Date Received: 10/07/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	350			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	400			W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	56			I

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-DUP-01-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) _____ Lab Sample ID: 0918695-013
Level: MED Date Received: 10/07/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) _____

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	360			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	500			W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	11			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-EB-01-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) _____ Lab Sample ID: 0918695-014
Level: MED Date Received: 10/07/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) _____

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	7.0			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	7	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	1	U		I

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-2-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918960-001
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.20			W
	Bicarbonate Alkalinity as CaCO3	400			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	590			W
	Hydroxide Alkalinity as CaCO3	3	U		W
14808-79-8	Sulfate	2.8			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-3-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918960-002
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.75			W
	Bicarbonate Alkalinity as CaCO3	360			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	500			W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	9.3			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-4-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918960-003
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.11			W
	Bicarbonate Alkalinity as CaCO3	290			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	350			W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.21			I
14808-79-8	Sulfate	37			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-5-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918960-004
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	280			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	310			W
	Hydroxide Alkalinity as CaCO3	3	U		W
14808-79-8	Sulfate	8.6			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-8-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918960-005
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	400			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	650			W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	52			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-9-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918960-006
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.33			W
	Bicarbonate Alkalinity as CaCO3	260			W
	Carbonate Alkalinity as CaCO3	3	U		W
HARDNESS	Hardness, Total	220			W
	Hydroxide Alkalinity as CaCO3	3	U		W
14808-79-8	Sulfate	12			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-2-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918960-007
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NO3-N	Nitrate as N	0.1	U		I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-5-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918960-008
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NO3-N	Nitrate as N	0.1	U		I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-9-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918695
Matrix: (soil/water) WATER Lab Sample ID: 0918960-009
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NO3-N	Nitrate as N	0.1	U		I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910025

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/15/09 11:07

Col Type:

Lab ID: 0910025-001A

Client Sample ID: 0918695-001C,D

Collection Date: 10/06/09 15:45

Date Received: 10/07/09 15:35

PrepDate: 10/13/09 10:13

BatchNo: 10128/R18530

FileID: 1-SAMP-E:\Osioc09\E101305.r

Sample Size: 31 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.097	0.0021	0.0014	8015M/RSK175M (RSK 175)	mg/L	1	10/13/09 11:34

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 10/15/09 11:10

475636

Project S

903

: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910025

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/15/09 11:07

Col Type:

Lab ID: 0910025-002A

Client Sample ID: 0918695-002C,D

Collection Date: 10/06/09 16:30

Date Received: 10/07/09 15:35

PrepDate: 10/13/09 10:13

BatchNo: 10128/R18530

FileID: I-SAMP-E:\Osioc09\E101306.r

Sample Size: 31 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M	(RSK 175)	
Methane	0.033	0.0021		0.0014	mg/L	1	10/13/09 11:45

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

Print Date: 10/15/09 11:10

475637

Project:

904

by: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910025

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/15/09 11:07

Col Type:

Lab ID: 0910025-003A

Client Sample ID: 0918695-003C,D

Collection Date: 10/06/09 15:25

Date Received: 10/07/09 15:35

PrepDate: 10/13/09 10:13

BatchNo: 10128/R18530

FileID: I-SAMP-E:\Osioc09\E101308.r

Sample Size: 32 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.51	0.10		0.070	mg/L	50	10/13/09 12:08

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

Print Date: 10/15/09 11:10

475638

Project

905

Anthony Crescenzi

12



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910025

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/15/09 11:07

Col Type:

Lab ID: 0910025-004A

Client Sample ID: 0918695-004C,D

Collection Date: 10/06/09 16:45

Date Received: 10/07/09 15:35

PrepDate: 10/13/09 10:13

BatchNo: 10128/R18530

FileID: 1-SAMP-E:\Osioc09\101309.r

Sample Size: 32 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.045	0.0020		0.0014	mg/L	1	10/13/09 12:19

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

Print Date: 10/15/09 11:10

475639

Project:

906

by: Anthony Crescenzi

13



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910025

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/15/09 11:07

Col Type:

Lab ID: 0910025-005A

Client Sample ID: 0918695-005C,D

Collection Date: 10/06/09 15:45

Date Received: 10/07/09 15:35

PrepDate: 10/13/09 10:13

BatchNo: 10128/R18530

FileID: 1-SAMP-E:\Osioc09\E101310.r

Sample Size: 32 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M	(RSK 175)	
Methane	0.057		0.0020	0.0014	mg/L	1	10/13/09 12:29

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 10/15/09 11:10

475640

Project

907

by Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910025

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/15/09 11:07

Col Type:

Lab ID: 0910025-006A

Client Sample ID: 0918695-006C,D

Collection Date: 10/06/09 14:15

Date Received: 10/07/09 15:35

PrepDate: 10/13/09 10:13

BatchNo: 10128/R18530

FileID: 1-SAMP-E:\Osioc09\E101311.r

Sample Size: 31 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M	(RSK 175)	
Methane	0.061	0.0021		0.0014	mg/L	1	10/13/09 12:44

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 10/15/09 11:10

475641

Project:

908

by: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910025

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/15/09 11:07

Col Type:

Lab ID: 0910025-007A

Client Sample ID: 0918695-007C,D

Collection Date: 10/06/09 12:05

Date Received: 10/07/09 15:35

PrepDate: 10/13/09 10:13

BatchNo: 10128/R18530

FileID: 1-SAMP-E:\Osioc09\101313.r

Sample Size: 31 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.039	0.0021		0.0014	mg/L	1	10/13/09 13:06

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

Print Date: 10/15/09 11:10

475643

Project:

909

by: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910025

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/15/09 11:07

Col Type:

Lab ID: 0910025-008A

Client Sample ID: 0918695-008C,D

Collection Date: 10/06/09 10:40

Date Received: 10/07/09 15:35

PrepDate: 10/13/09 10:13

BatchNo: 10128/R18530

FileID: I-SAMP-E:\Osioc09\101315.r

Sample Size: 31 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M	(RSK 175)	
Methane	1.4	0.021		0.014	mg/L	10	10/13/09 14:08

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 10/15/09 11:10

475644

Project S

910

: Anthony Crescenzi

17



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910025

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/15/09 11:07

Col Type:

Lab ID: 0910025-009A

Client Sample ID: 0918695-009C,D

Collection Date: 10/06/09 13:45

Date Received: 10/07/09 15:35

PrepDate: 10/13/09 10:13

BatchNo: 10128/R18530

FileID: 1-SAMP-E:\Osioc09\E101316.r

Sample Size: 31 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015W/RSK175M	(RSK 175)	
Methane	0.021		0.0021	0.0014	mg/L	1	10/13/09 14:22

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

Print Date: 10/15/09 11:10

475645

Project

911

r: Anthony Crescenzi

18



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc. Lab ID: 0910025-010A
Project: ILT091007CL2 Client Sample ID: 0918695-010C,D
W Order: 0910025 Collection Date: 10/06/09 17:00
Matrix: WATER Date Received: 10/07/09 15:35
Inst. ID: GCOS 17E Sample Size: 31 mL Prep Date: 10/13/09 10:13
ColumnID: Alumina %Moisture: 10128/R18530 BatchNo:
Revision: 10/15/09 11:07 TestCode: 8015W RSK175 FileID: 1-SAMP-E:\Osioc09\101317.r
Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							8015M/RSK175M (RSK 175)
Methane	0.0044	0.0021		0.0014	mg/L	1	10/13/09 14:41

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

Print Date: 10/15/09 11:10

475646

Project

912

or: Anthony Crescenzi

19



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc. Lab ID: 0910025-011A
Project: ILT091007CL2 Client Sample ID: 0918695-013C,D
W Order: 0910025 Collection Date: 10/06/09 0:00
Matrix: WATER Date Received: 10/07/09 15:35
Inst. ID: GCOS 17E Sample Size: 31 mL PrepDate: 10/13/09 10:13
ColumnID: Alumina %Moisture: BatchNo: 10128/R18530
Revision: 10/15/09 11:07 TestCode: 8015W RSK175 FileID: 1-SAMP-E:\Osioc09\E101321.r
Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M (RSK 175)		
Methane	0.64	0.010		0.0072	mg/L	5	10/13/09 15:37

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

913

Print Date: 10/15/09 11:10

475649

Project _____: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910025

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/15/09 11:07

Col Type:

Lab ID: 0910025-012A

Client Sample ID: 0918695-014C,D

Collection Date: 10/06/09 17:20

Date Received: 10/07/09 15:35

PrepDate: 10/13/09 10:13

BatchNo: 10128/R18530

FileID: I-SAMP-E:\Osioc09\101322.r

Sample Size: 31 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M	(RSK 175)	
Methane	ND		0.0021	0.0014	mg/L	1	10/13/09 15:49

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

914

Print Date: 10/15/09 11:10

475650

Project L.....r: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091013CL3

W Order: 0910056

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/22/09 15:20

Col Type:

Lab ID: 0910056-001A

Client Sample ID: 0918960-001C,D

Collection Date: 10/07/09 9:35

Date Received: 10/15/09 8:58

PrepDate: 10/18/09 8:51

BatchNo: 10154/R18594

Sample Size: 32 mL

%Moisture:

TestCode: 8015W RSK175

FileID: 1-SAMP-E:\Osioc09\E101903.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	4.4	0.20		0.14	mg/L	100	10/19/09 13:52

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477577

Project

1081

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091013CL3

W Order: 0910056

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/22/09 15:20

Col Type:

Lab ID: 0910056-002A

Client Sample ID: 0918960-002C,D

Collection Date: 10/07/09 16:30

Date Received: 10/15/09 8:58

PrepDate: 10/18/09 8:51

BatchNo: 10154/R18594

FileID: 1-SAMP-E\Osioc109\E101905.r

Sample Size: 32 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M	(RSK 175)	
Methane	0.28	0.010		0.0070	mg/L	5	10/19/09 14:14

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477578

Project 1

1082

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091013CL3

W Order: 0910056

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/22/09 15:20

Col Type:

Lab ID: 0910056-003A

Client Sample ID: 0918960-003C,D

Collection Date: 10/07/09 16:35

Date Received: 10/15/09 8:58

PrepDate: 10/18/09 8:51

BatchNo: 10154/R18594

FileID: 1-SAMP-E:\Osioc09\E101906.r

Sample Size: 31 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							8015M/RSK175M (RSK 175)
Methane	0.012	0.0021		0.0014	mg/L	1	10/19/09 14:25

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477579

Project

1083

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc. Lab ID: 0910056-004A
Project: ILT091013CL3 Client Sample ID: 0918960-004C,D
W Order: 0910056 Collection Date: 10/07/09 15:10
Matrix: WATER Date Received: 10/15/09 8:58
Inst. ID: GCOS 17E Sample Size: 31 mL PrepDate: 10/18/09 8:51
ColumnID: Alumina %Moisture: BatchNo: 10154/R18594
Revision: 10/22/09 15:20 TestCode: 8015W RSK175 FileID: 1-SAMP-E:\Osioc09\E101907.r
Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.021	0.0021		0.0014	8015M/RSK175M (RSK 175) mg/L	1	10/19/09 14:38

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477580

Project

1084

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc. Lab ID: 0910056-005A
Project: ILT091013CL3 Client Sample ID: 0918960-005C,D
W Order: 0910056 Collection Date: 10/08/09 14:25
Matrix: WATER Date Received: 10/15/09 8:58
Inst. ID: GCOS 17E Sample Size: 32 mL PrepDate: 10/18/09 8:51
ColumnID: Alumina %Moisture: BatchNo: 10154/R18594
Revision: 10/22/09 15:20 TestCode: 8015W RSK175 FileID: 1-SAMP-E:\Osioc09\E101908.r
Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M (RSK 175)		
Methane	0.011		0.0020	0.0014	mg/L	1	10/19/09 14:52

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded
J Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL)
P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477581

Project

1085

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091013CL3

W Order: 0910056

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/22/09 15:20

Col Type:

Lab ID: 0910056-006A

Client Sample ID: 0918960-006C,D

Collection Date: 10/07/09 8:45

Date Received: 10/15/09 8:58

PrepDate: 10/18/09 8:51

BatchNo: 10154/R18594

FileID: 1-SAMP-E:\Osioc09\E101909.r

Sample Size: 31 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							8015M/RSK175M (RSK 175)
Methane	0.037		0.0021	0.0014	mg/L	1	10/19/09 15:04

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477582

Project 1086

Anthony Crescenzi

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt DeWitt, NY

Sample ID: ANG-MW-103-10/09

LSL Sample ID: 0918695-001

Location:

Sampled: 10/06/09 15:45 Sampled By: Client

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis		Analyst Initials
Analyte					Date & Time		
(6)	Dissolved Gases						
	Methane	0.097	mg/l		10/13/09 11:34		BL
(6)	EPA 200.7 Total Hardness as CaCO3						
	Hardness, Total	510	mg/l	10/8/09	10/22/09		DP
(1)	EPA 350.1, Rev 2.0 Ammonia						
	Ammonia as N	<0.03	mg/l		10/22/09		DRB
(1)	EPA 8260 BTEX						
	Benzene	1.3	ug/l		10/7/09		BD
	Ethyl benzene	<1	ug/l		10/7/09		BD
	Xylenes (Total)	<2	ug/l		10/7/09		BD
	Surrogate (1,2-DCA-d4)	95	%R		10/7/09		BD
	Surrogate (Tol-d8)	101	%R		10/7/09		BD
	Surrogate (4-BFB)	98	%R		10/7/09		BD
(1)	EPA Method 300.0 A						
	Nitrate as N	<0.1	mg/l		10/7/09 23:11		RAF
	Sulfate	33	mg/l		10/7/09 23:11		RAF
(1)	SM 18 2320B, Alkalinity as CaCO3						
	Bicarbonate Alkalinity as CaCO3	330	mg/l		10/14/09		TER
	Carbonate Alkalinity as CaCO3	<3	mg/l		10/14/09		TER
	Hydroxide Alkalinity as CaCO3	<3	mg/l		10/14/09		TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-104-10/09

LSL Sample ID: 0918695-002

Location:

Sampled: 10/06/09 16:30

Sampled By: Client

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(6)	Dissolved Gases					
	Methane	0.033	mg/l		10/13/09 11:45	BL
(6)	EPA 200.7 Total Hardness as CaCO3					
	Hardness, Total	500	mg/l	10/8/09	10/22/09	DP
(1)	EPA 350.1, Rev 2.0 Ammonia					
	Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1)	EPA 8260 BTEX					
	Benzene	<1	ug/l		10/7/09	BD
	Ethyl benzene	<1	ug/l		10/7/09	BD
	Xylenes (Total)	<2	ug/l		10/7/09	BD
	Surrogate (1,2-DCA-d4)	94	%R		10/7/09	BD
	Surrogate (Tol-d8)	99	%R		10/7/09	BD
	Surrogate (4-BFB)	99	%R		10/7/09	BD
(1)	EPA Method 300.0 A					
	Nitrate as N	<0.1	mg/l		10/8/09 00:03	RAF
	Sulfate	41	mg/l		10/8/09 00:03	RAF
(1)	SM 18 2320B, Alkalinity as CaCO3					
	Bicarbonate Alkalinity as CaCO3	370	mg/l		10/14/09	TER
	Carbonate Alkalinity as CaCO3	<3	mg/l		10/14/09	TER
	Hydroxide Alkalinity as CaCO3	<3	mg/l		10/14/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-105-10/09

LSL Sample ID:

0918695-003

Location:

Sampled: 10/06/09 15:25

Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	0.51	mg/l		10/13/09 12:08	BL
(6) EPA 200.7 Total Hardness as CaCO ₃					
Hardness, Total	460	mg/l	10/8/09	10/22/09	DP
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	16	ug/l		10/7/09	BD
Ethyl benzene	8.6	ug/l		10/7/09	BD
Xylenes (Total)	14	ug/l		10/7/09	BD
Surrogate (1,2-DCA-d4)	93	%R		10/7/09	BD
Surrogate (Tol-d8)	102	%R		10/7/09	BD
Surrogate (4-BFB)	98	%R		10/7/09	BD
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/8/09 00:21	RAF
Sulfate	14	mg/l		10/8/09 00:21	RAF
(1) SM 18 2320B, Alkalinity as CaCO ₃					
Bicarbonate Alkalinity as CaCO ₃	360	mg/l		10/14/09	TER
Carbonate Alkalinity as CaCO ₃	<3	mg/l		10/14/09	TER
Hydroxide Alkalinity as CaCO ₃	<3	mg/l		10/14/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-106-10/09

LSL Sample ID:

0918695-004

Location:

Sampled: 10/06/09 16:45

Sampled By: Client

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(6)	Dissolved Gases					
	Methane	0.045	mg/l		10/13/09 12:19	BL
(6)	EPA 200.7 Total Hardness as CaCO3					
	Hardness, Total	380	mg/l	10/8/09	10/21/09	DP
(1)	EPA 350.1, Rev 2.0 Ammonia					
	Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1)	EPA 8260 BTEX					
	Benzene	<1	ug/l		10/7/09	BD
	Ethyl benzene	<1	ug/l		10/7/09	BD
	Xylenes (Total)	<2	ug/l		10/7/09	BD
	Surrogate (1,2-DCA-d4)	96	%R		10/7/09	BD
	Surrogate (Tol-d8)	98	%R		10/7/09	BD
	Surrogate (4-BFB)	99	%R		10/7/09	BD
(1)	EPA Method 300.0 A					
	Nitrate as N	<0.1	mg/l		10/8/09 00:39	RAF
	Sulfate	36	mg/l		10/8/09 00:39	RAF
(1)	SM 18 2320B, Alkalinity as CaCO3					
	Bicarbonate Alkalinity as CaCO3	340	mg/l		10/14/09	TER
	Carbonate Alkalinity as CaCO3	<3	mg/l		10/14/09	TER
	Hydroxide Alkalinity as CaCO3	<3	mg/l		10/14/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-107-10/09

LSL Sample ID:

0918695-005

Location:

Sampled: 10/06/09 15:45

Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	0.057	mg/l		10/13/09 12:29	BL
(6) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	330	mg/l	10/8/09	10/21/09	DP
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		10/7/09	BD
Ethyl benzene	<1	ug/l		10/7/09	BD
Xylenes (Total)	<2	ug/l		10/7/09	BD
Surrogate (1,2-DCA-d4)	96	%R		10/7/09	BD
Surrogate (Tol-d8)	100	%R		10/7/09	BD
Surrogate (4-BFB)	101	%R		10/7/09	BD
(1) EPA Method 300.0 A					
Nitrate as N	0.54	mg/l		10/8/09 00:56	RAF
Sulfate	42	mg/l		10/8/09 00:56	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	180	mg/l		10/14/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		10/14/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		10/14/09	TER

ERM, Inc. - DeWitt Dewitt, NY

LSL Sample ID: 0918695-006

Sampled By: Client

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(6)	Dissolved Gases					
	Methane	0.061	mg/l		10/13/09 12:44	BL
(6)	EPA 200.7 Total Hardness as CaCO3					
	Hardness, Total	570	mg/l	10/8/09	10/22/09	DP
(1)	EPA 350.1, Rev 2.0 Ammonia					
	Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1)	EPA 8260 BTEX					
	Benzene	<1	ug/l		10/7/09	BD
	Ethyl benzene	<1	ug/l		10/7/09	BD
	Xylenes (Total)	<2	ug/l		10/7/09	BD
	Surrogate (1,2-DCA-d4)	95	%R		10/7/09	BD
	Surrogate (Tol-d8)	99	%R		10/7/09	BD
	Surrogate (4-BFB)	100	%R		10/7/09	BD
(1)	EPA Method 300.0 A					
	Nitrate as N	<0.1	mg/l		10/8/09 01:14	RAF
	Sulfate	57	mg/l		10/8/09 01:14	RAF
(1)	SM 18 2320B, Alkalinity as CaCO3					
	Bicarbonate Alkalinity as CaCO3	380	mg/l		10/14/09	TER
	Carbonate Alkalinity as CaCO3	<3	mg/l		10/14/09	TER
	Hydroxide Alkalinity as CaCO3	<3	mg/l		10/14/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-111-10/09

LSL Sample ID: 0918695-007

Location:

Sampled: 10/06/09 12:05

Sampled By: Client

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(6)	Dissolved Gases					
	Methane	0.039	mg/l		10/13/09 13:06	BL
(6)	EPA 200.7 Total Hardness as CaCO3					
	Hardness, Total	540	mg/l	10/8/09	10/22/09	DP
(1)	EPA 350.1, Rev 2.0 Ammonia					
	Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1)	EPA 8260 BTEX					
	Benzene	<1	ug/l		10/7/09	BD
	Ethyl benzene	<1	ug/l		10/7/09	BD
	Xylenes (Total)	<2	ug/l		10/7/09	BD
	Surrogate (1,2-DCA-d4)	103	%R		10/7/09	BD
	Surrogate (Tol-d8)	99	%R		10/7/09	BD
	Surrogate (4-BFB)	97	%R		10/7/09	BD
(1)	EPA Method 300.0 A					
	Nitrate as N	<0.1	mg/l		10/8/09 01:31	RAF
	Sulfate	49	mg/l		10/8/09 01:31	RAF
(1)	SM 18 2320B, Alkalinity as CaCO3					
	Bicarbonate Alkalinity as CaCO3	360	mg/l		10/14/09	TER
	Carbonate Alkalinity as CaCO3	<3	mg/l		10/14/09	TER
	Hydroxide Alkalinity as CaCO3	<3	mg/l		10/14/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-112-10/09

LSL Sample ID:

0918695-008

Location:

Sampled: 10/06/09 10:40

Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	1.4	mg/l		10/13/09 14:08	BL
(6) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	510	mg/l	10/8/09	10/22/09	DP
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	0.051	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	<10	ug/l		10/8/09	BD
Ethyl benzene	48	ug/l		10/8/09	BD
Xylenes (Total)	<20	ug/l		10/8/09	BD
Surrogate (1,2-DCA-d4)	111	%R		10/8/09	BD
Surrogate (Tol-d8)	98	%R		10/8/09	BD
Surrogate (4-BFB)	95	%R		10/8/09	BD
(1) EPA Method 300.0 A					
Nitrate as N	1.4	mg/l		10/8/09 01:49	RAF
Sulfate	8.4	mg/l		10/8/09 01:49	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	340	mg/l		10/14/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		10/14/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		10/14/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-113-10/09

LSL Sample ID: 0918695-009

Location:

Sampled: 10/06/09 13:45

Sampled By: Client

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis		Analyst Initials
Analyte					Date & Time		
(6)	Dissolved Gases						
	Methane	0.021	mg/l		10/13/09 14:22		BL
(6)	EPA 200.7 Total Hardness as CaCO3						
	Hardness, Total	540	mg/l	10/8/09	10/22/09		DP
(1)	EPA 350.1, Rev 2.0 Ammonia						
	Ammonia as N	<0.03	mg/l		10/22/09		DRB
(1)	EPA 8260 BTEX						
	Benzene	<1	ug/l		10/7/09		BD
	Ethyl benzene	<1	ug/l		10/7/09		BD
	Xylenes (Total)	<2	ug/l		10/7/09		BD
	Surrogate (1,2-DCA-d4)	103	%R		10/7/09		BD
	Surrogate (Tol-d8)	99	%R		10/7/09		BD
	Surrogate (4-BFB)	100	%R		10/7/09		BD
(1)	EPA Method 300.0 A						
	Nitrate as N	<0.1	mg/l		10/8/09 02:07		RAF
	Sulfate	62	mg/l		10/8/09 02:07		RAF
(1)	SM 18 2320B, Alkalinity as CaCO3						
	Bicarbonate Alkalinity as CaCO3	340	mg/l		10/14/09		TER
	Carbonate Alkalinity as CaCO3	<3	mg/l		10/14/09		TER
	Hydroxide Alkalinity as CaCO3	<3	mg/l		10/14/09		TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-114-10/09

LSL Sample ID: 0918695-010

Location:

Sampled: 10/06/09 17:00

Sampled By: Client

Sample Matrix: NPW

Analytical Method Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(6) Dissolved Gases					
Methane	0.0044	mg/l		10/13/09 14:41	BL
(6) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	400	mg/l	10/8/09	10/21/09	DP
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		10/7/09	BD
Ethyl benzene	<1	ug/l		10/7/09	BD
Xylenes (Total)	<2	ug/l		10/7/09	BD
Surrogate (1,2-DCA-d4)	106	%R		10/7/09	BD
Surrogate (Tol-d8)	98	%R		10/7/09	BD
Surrogate (4-BFB)	98	%R		10/7/09	BD
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/8/09 02:24	RAF
Sulfate	56	mg/l		10/8/09 02:24	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	350	mg/l		10/14/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		10/14/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		10/14/09	TER

ERM, Inc. - DeWitt Dewitt, NY

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-EB-01-10/09

LSL Sample ID: 0918695-014

Location:

Sampled: 10/06/09 17:20

Sampled By: Client

Sample Matrix: QC

Analytical Method		Result	Units	Prep Date	Analysis		Analyst Initials
Analyte					Date & Time		
(6)	Dissolved Gases						
	Methane	<0.001	mg/l		10/13/09 15:49		BL
(6)	EPA 200.7 Total Hardness as CaCO3						
	Hardness, Total	<7	mg/l	10/8/09	10/21/09		DP
(1)	EPA 350.1, Rev 2.0 Ammonia						
	Ammonia as N	<0.03	mg/l		10/22/09		DRB
(1)	EPA 8260 BTEX						
	Benzene	<1	ug/l		10/7/09		BD
	Ethyl benzene	<1	ug/l		10/7/09		BD
	Xylenes (Total)	<2	ug/l		10/7/09		BD
	Surrogate (1,2-DCA-d4)	109	%R		10/7/09		BD
	Surrogate (Tol-d8)	99	%R		10/7/09		BD
	Surrogate (4-BFB)	96	%R		10/7/09		BD
(1)	EPA Method 300.0 A						
	Nitrate as N	<0.1	mg/l		10/21/09 17:52		RAF
	This analysis was performed beyond the holding time limit.						
	Sulfate	<1	mg/l		10/21/09 17:52		RAF
(1)	SM 18 2320B, Alkalinity as CaCO3						
	Bicarbonate Alkalinity as CaCO3	7.0	mg/l		10/14/09		TER
	Carbonate Alkalinity as CaCO3	<3	mg/l		10/14/09		TER
	Hydroxide Alkalinity as CaCO3	<3	mg/l		10/14/09		TER

- - LABORATORY ANALYSIS REPORT - -

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-TB-01-10/09

LSL Sample ID: 0918695-015

Location:

Sampled: 10/06/09 0:00

Sampled By: Client

Sample Matrix: TB

Analytical Method		Prep	Analysis	Analyst	
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		10/7/09	BD
Ethyl benzene	<1	ug/l		10/7/09	BD
Xylenes (Total)	<2	ug/l		10/7/09	BD
Surrogate (1,2-DCA-d4)	107	%R		10/7/09	BD
Surrogate (Tol-d8)	100	%R		10/7/09	BD
Surrogate (4-BFB)	100	%R		10/7/09	BD

Life Science

ories, Inc.

Page 16 of 16

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Fi

28

Date Printed: 10/27/09

(4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-2-10/09

LSL Sample ID: 0918960-001

Location:

Sampled: 10/07/09 9:35

Sampled By: SP

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(6)	Dissolved Gases					
	Methane	4.4	mg/l		10/19/09 13:52	BL
(6)	EPA 200.7 Total Hardness as CaCO3					
	Hardness, Total	590	mg/l	10/14/09	10/21/09	TER
(1)	EPA 350.1, Rev 2.0 Ammonia					
	Ammonia as N	0.20	mg/l		10/22/09	DRB
(1)	EPA 8260 BTEX					
	Benzene	<1	ug/l		10/21/09	CRT
	Ethyl benzene	200	ug/l		10/21/09	CRT
	Xylenes (Total)	370	ug/l		10/21/09	CRT
	Surrogate (1,2-DCA-d4)	101	%R		10/21/09	CRT
	Surrogate (Tol-d8)	99	%R		10/21/09	CRT
	Surrogate (4-BFB)	106	%R		10/21/09	CRT
(1)	EPA Method 300.0 A					
	Sulfate	2.8	mg/l		10/9/09 19:51	CRT
(1)	SM 18 2320B, Alkalinity as CaCO3					
	Bicarbonate Alkalinity as CaCO3	400	mg/l		10/14/09	TER
	Carbonate Alkalinity as CaCO3	<3	mg/l		10/14/09	TER
	Hydroxide Alkalinity as CaCO3	<3	mg/l		10/14/09	TER

- - LABORATORY ANALYSIS REPORT - -

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-3-10/09

LSL Sample ID: 0918960-002

Location:

Sampled: 10/07/09 16:30

Sampled By: Client

Sample Matrix: NPW

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
<hr/>					
(6) Dissolved Gases					
Methane	0.28	mg/l		10/19/09 14:14	BL
(6) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	500	mg/l	10/14/09	10/21/09	TER
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	0.75	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		10/21/09	CRT
Ethyl benzene	<1	ug/l		10/21/09	CRT
Xylenes (Total)	<2	ug/l		10/21/09	CRT
Surrogate (1,2-DCA-d4)	81	%R		10/21/09	CRT
Surrogate (Tol-d8)	107	%R		10/21/09	CRT
Surrogate (4-BFB)	107	%R		10/21/09	CRT
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/9/09 16:03	CRT
Sulfate	9.3	mg/l		10/9/09 16:03	CRT
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	360	mg/l		10/14/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		10/14/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		10/14/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-4-10/09

LSL Sample ID: 0918960-003

Location:

Sampled: 10/07/09 16:35

Sampled By: Client

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(6)	Dissolved Gases					
	Methane	0.012	mg/l		10/19/09 14:25	BL
(6)	EPA 200.7 Total Hardness as CaCO3					
	Hardness, Total	350	mg/l	10/14/09	10/21/09	TER
(1)	EPA 350.1, Rev 2.0 Ammonia					
	Ammonia as N	0.11	mg/l		10/22/09	DRB
(1)	EPA 8260 BTEX					
	Benzene	<1	ug/l		10/21/09	CRT
	Ethyl benzene	<1	ug/l		10/21/09	CRT
	Xylenes (Total)	<2	ug/l		10/21/09	CRT
	Surrogate (1,2-DCA-d4)	102	%R		10/21/09	CRT
	Surrogate (Tol-d8)	101	%R		10/21/09	CRT
	Surrogate (4-BFB)	99	%R		10/21/09	CRT
(1)	EPA Method 300.0 A					
	Nitrate as N	0.21	mg/l		10/9/09 16:20	CRT
	Sulfate	37	mg/l		10/9/09 16:20	CRT
(1)	SM 18 2320B, Alkalinity as CaCO3					
	Bicarbonate Alkalinity as CaCO3	290	mg/l		10/14/09	TER
	Carbonate Alkalinity as CaCO3	<3	mg/l		10/14/09	TER
	Hydroxide Alkalinity as CaCO3	<3	mg/l		10/14/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-5-10/09

LSL Sample ID: 0918960-004

Location:

Sampled: 10/07/09 15:10

Sampled By: Client

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(6)	Dissolved Gases					
	Methane	0.02	mg/l		10/19/09 14:38	BL
(6)	EPA 200.7 Total Hardness as CaCO3					
	Hardness, Total	310	mg/l	10/14/09	10/21/09	TER
(1)	EPA 350.1, Rev 2.0 Ammonia					
	Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1)	EPA 8260 BTEX					
	Benzene	<1	ug/l		10/21/09	CRT
	Ethyl benzene	<1	ug/l		10/21/09	CRT
	Xylenes (Total)	<2	ug/l		10/21/09	CRT
	Surrogate (1,2-DCA-d4)	115	%R		10/21/09	CRT
	Surrogate (Tol-d8)	98	%R		10/21/09	CRT
	Surrogate (4-BFB)	96	%R		10/21/09	CRT
(1)	EPA Method 300.0 A					
	Sulfate	8.6	mg/l		10/9/09 15:28	CRT
(1)	SM 18 2320B, Alkalinity as CaCO3					
	Bicarbonate Alkalinity as CaCO3	280	mg/l		10/14/09	TER
	Carbonate Alkalinity as CaCO3	<3	mg/l		10/14/09	TER
	Hydroxide Alkalinity as CaCO3	<3	mg/l		10/14/09	TER

Life Science

34

ories, Inc.

Page 5 of 10

Date Printed: 10/27/09

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL F.

, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-8-10/09

LSL Sample ID: 0918960-005

Location:

Sampled: 10/08/09 14:25

Sampled By: Client

Sample Matrix: NPW

Analytical Method			Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units			
(6) Dissolved Gases					
Methane	0.011	mg/l		10/19/09 14:52	BL
(6) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	650	mg/l	10/14/09	10/21/09	TER
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		10/21/09	CRT
Ethyl benzene	<1	ug/l		10/21/09	CRT
Xylenes (Total)	<2	ug/l		10/21/09	CRT
Surrogate (1,2-DCA-d4)	117	%R		10/21/09	CRT
Surrogate (Tol-d8)	100	%R		10/21/09	CRT
Surrogate (4-BFB)	93	%R		10/21/09	CRT
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/9/09 16:38	CRT
Sulfate	52	mg/l		10/9/09 16:38	CRT
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	400	mg/l		10/14/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		10/14/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		10/14/09	TER

- - LABORATORY ANALYSIS REPORT - -

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-9-10/09

LSL Sample ID: 0918960-006

Location:

Sampled: 10/07/09 8:45

Sampled By: Client

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(6)	Dissolved Gases					
	Methane	0.037	mg/l		10/19/09 15:04	BL
(6)	EPA 200.7 Total Hardness as CaCO3					
	Hardness, Total	220	mg/l	10/14/09	10/21/09	TER
(1)	EPA 350.1, Rev 2.0 Ammonia					
	Ammonia as N	0.33	mg/l		10/22/09	DRB
(1)	EPA 8260 BTEX					
	Benzene	<1	ug/l		10/21/09	CRT
	Ethyl benzene	<1	ug/l		10/21/09	CRT
	Xylenes (Total)	<2	ug/l		10/21/09	CRT
	Surrogate (1,2-DCA-d4)	112	%R		10/21/09	CRT
	Surrogate (Tol-d8)	98	%R		10/21/09	CRT
	Surrogate (4-BFB)	97	%R		10/21/09	CRT
(1)	EPA Method 300.0 A					
	Sulfate	12	mg/l		10/9/09 20:09	CRT
(1)	SM 18 2320B, Alkalinity as CaCO3					
	Bicarbonate Alkalinity as CaCO3	260	mg/l		10/14/09	TER
	Carbonate Alkalinity as CaCO3	<3	mg/l		10/14/09	TER
	Hydroxide Alkalinity as CaCO3	<3	mg/l		10/14/09	TER

- - LABORATORY ANALYSIS REPORT - -

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-2-10/09

LSL Sample ID: 0918960-007

Location:

Sampled: 10/12/09 11:25 **Sampled By:** Client

Sample Matrix: NPW

Analytical Method

Analyte

Result	Units
--------	-------

Prep
Date

**Analysis
Date & Time**

**Analyst
Initials**

(1) EPA Method 300.0 A

Nitrate as N

<0.1 mg/l

10/12/09 16:50

CRT

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-5-10/09 LSL Sample ID: 0918960-008

Location:

Sampled: 10/12/09 10:40 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/12/09 17:08	CRT

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-9-10/09 LSL Sample ID: 0918960-009

Location:

Sampled: 10/12/09 13:15 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/12/09 17:25	CRT

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-11

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965Matrix: (soil/water) WATER Lab Sample ID: 0918965-001Sample wt/vol: 10 (g/ml) ML Lab File ID: C12457SLevel: (low/med) LOW Date Received: 10/8/2009% Moisture: not dec. NA Date Analyzed: 10/22/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	51	
100-41-4	1,2-Dichlorobenzene	41	
108-38-3	m,p-Xylene	46	
95-47-6	o-Xylene	40	

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-11RE

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965Matrix: (soil/water) WATER Lab Sample ID: 0918965-001RE 2XSample wt/vol: 10 (g/ml) ML Lab File ID: C12471SLevel: (low/med) LOW Date Received: 10/8/2009% Moisture: not dec. NA Date Analyzed: 10/22/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	49	
100-41-4	Ethylbenzene	11	
108-38-3	m/p-Xylene	16	
95-47-6	o-Xylene	2	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-14

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965Matrix: (soil/water) WATER Lab Sample ID: 0918965-002Sample wt/vol: 10 (g/ml) ML Lab File ID: C12458SLevel: (low/med) LOW Date Received: 10/8/2009% Moisture: not dec. NA Date Analyzed: 10/22/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	3.9	
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-15 DL

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965

Matrix: (soil/water) WATER Lab Sample ID: 0918965-003 2X

Sample wt/vol: 25 (g/ml) ML Lab File ID: 03778S

Level: (low/med) LOW Date Received: 10/8/2009

% Moisture: not dec. NA Date Analyzed: 10/20/2009

GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	10	
100-41-4	Ethylbenzene	11	
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-16Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965Matrix: (soil/water) WATER Lab Sample ID: 0918965-006Sample wt/vol: 10 (g/ml) ML Lab File ID: C12464SLevel: (low/med) LOW Date Received: 10/8/2009% Moisture: not dec. NA Date Analyzed: 10/22/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-17

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965Matrix: (soil/water) WATER Lab Sample ID: 0918965-007Sample wt/vol: 10 (g/ml) ML Lab File ID: C12465SLevel: (low/med) LOW Date Received: 10/8/2009% Moisture: not dec. NA Date Analyzed: 10/22/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-18 0L

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965Matrix: (soil/water) WATER Lab Sample ID: 0918965-008 2XSample wt/vol: 25 (g/ml) ML Lab File ID: K03783SLevel: (low/med) LOW Date Received: 10/8/2009% Moisture: not dec. NA Date Analyzed: 10/20/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-19 DL

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965Matrix: (soil/water) WATER Lab Sample ID: 0918965-009 20XSample wt/vol: 25 (g/ml) ML Lab File ID: K03780SLevel: (low/med) LOW Date Received: 10/8/2009% Moisture: not dec. NA Date Analyzed: 10/20/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 20.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.		COMPOUND		CONCENTRATION UNITS:	
				UG/L	Q
71-43-2		Benzene		10	U
100-41-4		Ethylbenzene		380	
108-38-3		m/p-Xylene		420	
95-47-6		o-Xylene		1	U

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-20 0 L

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965

Matrix: (soil/water) WATER Lab Sample ID: 0918965-010 2X

Sample wt/vol: 25 (g/ml) ML Lab File ID: K03784S

Level: (low/med) LOW Date Received: 10/8/2009

% Moisture: not dec. NA Date Analyzed: 10/20/2009

GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-22 DL

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965

Matrix: (soil/water) WATER Lab Sample ID: 0918965-011 2X

Sample wt/vol: 25 (g/ml) ML Lab File ID: K03785S

Level: (low/med) LOW Date Received: 10/8/2009

% Moisture: not dec. NA Date Analyzed: 10/20/2009

GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	5.6	
100-41-4	Ethylbenzene	21	
108-38-3	m/p-Xylene	3.0	
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-101 JL

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965Matrix: (soil/water) WATER Lab Sample ID: 0918965-012 2XSample wt/vol: 25 (g/ml) ML Lab File ID: K03779SLevel: (low/med) LOW Date Received: 10/8/2009% Moisture: not dec. NA Date Analyzed: 10/20/2009GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.		COMPOUND		CONCENTRATION UNITS:	
				UG/L	Q
71-43-2		Benzene		1	U
100-41-4		Ethylbenzene		7.9	
108-38-3		m/p-Xylene		7.4	
95-47-6		o-Xylene		1	U

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-102 0L

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965

Matrix: (soil/water) WATER Lab Sample ID: 0918965-013 2X

Sample wt/vol: 25 (g/ml) ML Lab File ID: K03786S

Level: (low/med) LOW Date Received: 10/8/2009

% Moisture: not dec. NA Date Analyzed: 10/20/2009

GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-108Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965Matrix: (soil/water) WATER Lab Sample ID: 09108965-014Sample wt/vol: 10 (g/ml) ML Lab File ID: C12466SLevel: (low/med) LOW Date Received: 10/8/2009% Moisture: not dec. NA Date Analyzed: 10/22/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-109

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965

Matrix: (soil/water) WATER Lab Sample ID: 0918965-015

Sample wt/vol: 10 (g/ml) ML Lab File ID: C12467S

Level: (low/med) LOW Date Received: 10/8/2009

% Moisture: not dec. NA Date Analyzed: 10/22/2009

GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

DUPE2 02

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965

Matrix: (soil/water) WATER Lab Sample ID: 0918965-016 10X

Sample wt/vol: 10 (g/ml) ML Lab File ID: C12468S

Level: (low/med) LOW Date Received: 10/8/2009

% Moisture: not dec. NA Date Analyzed: 10/22/2009

GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 10

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		UG/L	Q
71-43-2	Benzene	440	440
100-41-4	Ethylbenzene	440	440
108-38-3	m/p-Xylene	470	470
95-47-6	o-Xylene	440	440

1 A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUPE2 02

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965

Matrix: (soil/water) WATER Lab Sample ID: 0918965-016 2X

Sample wt/vol: 25 (g/ml) ML Lab File ID: K03782S

Level: (low/med) LOW Date Received: 10/8/2009

% Moisture: not dec. NA Date Analyzed: 10/20/2009

GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	3.9	✓
100-41-4	Ethylbenzene	600	✓
108-38-3	m/p-Xylene	100	✓
95-47-6	o-Xylene	1.9	✓

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

RW-1 DL

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965

Matrix: (soil/water) WATER Lab Sample ID: 0918965-017 2X

Sample wt/vol: 25 (g/ml) ML Lab File ID: K03781S

Level: (low/med) LOW Date Received: 10/8/2009

% Moisture: not dec. NA Date Analyzed: 10/20/2009

GC Column: Rtx-VMS ID 0.25 (mm) Dilution Factor: 2.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

1 A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

EB-02Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965Matrix: (soil/water) WATER Lab Sample ID: 0918965-018Sample wt/vol: 10 (g/ml) ML Lab File ID: C12469SLevel: (low/med) LOW Date Received: 10/8/2009% Moisture: not dec. NA Date Analyzed: 10/22/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB-2

Lab Name: Life Science Laboratories, Inc. Contract: _____Lab Code: 10248 Case No.: _____ SAS No.: _____ SDG No.: 0918965Matrix: (soil/water) WATER Lab Sample ID: 0918965-019Sample wt/vol: 10 (g/ml) ML Lab File ID: C12470SLevel: (low/med) LOW Date Received: 10/8/2009% Moisture: not dec. NA Date Analyzed: 10/22/2009GC Column: DB-624 ID 0.53 (mm) Dilution Factor: 1.0Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		UG/L	Q
71-43-2	Benzene	1	U
100-41-4	Ethylbenzene	1	U
108-38-3	m/p-Xylene	1	U
95-47-6	o-Xylene	1	U

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-11-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-001
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	360			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	4.5			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-14-
10/09**Lab Name: LIFE SCIENCE LABORATORIES, INC.

Contract: _____

Lab Code: 10248

Case No.: _____

NRAS No.: _____

SDG No.: 0918965Matrix: (soil/water) WATERLab Sample ID: 0918965-002Level: MEDDate Received: 10/08/2009

% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	340			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	45			I

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Color After: _____

Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-15-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-003
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	340			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	31			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-16-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-006
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	370			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
14808-79-8	Sulfate	63			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-17-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-007
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.22			W
	Bicarbonate Alkalinity as CaCO3	370			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	19			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-18-
10/09**Lab Name: LIFE SCIENCE LABORATORIES, INC.

Contract: _____

Lab Code: 10248

Case No.: _____

NRAS No.: _____

SDG No.: 0918965Matrix: (soil/water) WATERLab Sample ID: 0918965-008Level: MEDDate Received: 10/08/2009

% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	390			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
14808-79-8	Sulfate	14			I

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Color After: _____

Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-19-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-009
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.15			W
	Bicarbonate Alkalinity as CaCO3	340			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
14808-79-8	Sulfate	4.9			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-20-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-010
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	350			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
14808-79-8	Sulfate	9.4			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-22-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-011
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	410			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
14808-79-8	Sulfate	31			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-101-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-012
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	360			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
14808-79-8	Sulfate	42			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-102-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-013
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	340			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
14808-79-8	Sulfate	5.0			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-108-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-014
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	380			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
14808-79-8	Sulfate	44			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-109-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-015
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	340			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
14808-79-8	Sulfate	65			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-DUPE 2-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) _____ Lab Sample ID: 0918965-016
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) _____

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.15			W
	Bicarbonate Alkalinity as CaCO3	340			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
14808-79-8	Sulfate	5.5			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ANG-RW-1-10/09

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-017
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.82			W
	Bicarbonate Alkalinity as CaCO3	310			W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
NO3-N	Nitrate as N	0.1	U		I
14808-79-8	Sulfate	5.0			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-EB-02-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) _____ Lab Sample ID: 0918965-018
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) _____

CAS NO.	Analyte	Concentration	C	Q	M
NH3-N	Ammonia as N	0.03	U		W
	Bicarbonate Alkalinity as CaCO3	3	U		W
	Carbonate Alkalinity as CaCO3	3	U		W
	Hydroxide Alkalinity as CaCO3	3	U		W
14808-79-8	Sulfate	1	U		I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-16-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-020
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NO3-N	Nitrate as N	0.1	U		I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-18-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-021
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NO3-N	Nitrate as N	0.23			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-19-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-022
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NO3-N	Nitrate as N	0.1	U		I

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-20-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-023
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NO3-N	Nitrate as N	0.1	U		I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-15-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-024
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NO3-N	Nitrate as N	0.1	U		I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-22-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-025
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NO3-N	Nitrate as N	0.1	U		!

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-101-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-026
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NO3-N	Nitrate as N	0.25			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-102-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-027
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NO3-N	Nitrate as N	0.1	U		I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-108-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-028
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NO3-N	Nitrate as N	0.1	U		I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-MW-109-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) WATER Lab Sample ID: 0918965-029
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) MG/L

CAS NO.	Analyte	Concentration	C	Q	M
NO3-N	Nitrate as N	1.2			I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-DUP-2-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) _____ Lab Sample ID: 0918965-030
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) _____

CAS NO.	Analyte	Concentration	C	Q	M
NO3-N	Nitrate as N	0.1	U		1

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____

USEPA - CLP

1B - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

**ANG-EB-02-
10/09**

Lab Name: LIFE SCIENCE LABORATORIES, INC. Contract: _____
Lab Code: 10248 Case No.: _____ NRAS No.: _____ SDG No.: 0918965
Matrix: (soil/water) _____ Lab Sample ID: 0918965-031
Level: MED Date Received: 10/08/2009
% Solids: _____

Concentration Units: (mg/L or mg/Kg dry weight) _____

CAS NO.	Analyte	Concentration	C	Q	M
NO3-N	Nitrate as N	0.1	U		I

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Color After: _____ Artifacts: _____

Comments: _____



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc. Lab ID: 0910055-001A
Project: ILT091007CL2 Client Sample ID: 0918965-001C,D
W Order: 0910055 Collection Date: 10/08/09 11:50
Matrix: WATER Date Received: 10/15/09 8:58
Inst. ID: GCOS 17E Sample Size: 32 mL PrepDate: 10/18/09 8:51
ColumnID: Alumina %Moisture: BatchNo: 10154/R18593
Revision: 10/22/09 15:39 TestCode: 8015W RSK175 FileID: I-SAMP-E:\Osiocf09\E101806.r
Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M (RSK 175)		
Methane	1.6	0.10		0.070	mg/L	50	10/18/09 10:02

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:40

477584

Project

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.
Project: ILT091007CL2
W Order: 0910055
Matrix: WATER
Inst. ID: GCOS 17E
ColumnID: Alumina
Revision: 10/22/09 15:05
Col Type:

Lab ID: 0910055-002A
Client Sample ID: 0918965-002C,D
Collection Date: 10/08/09 9:55
Date Received: 10/15/09 8:58
PrepDate: 10/18/09 8:51
BatchNo: 10154/R18593
FileID: 1-SAMP-E:\Osioc09\E101807.r

Sample Size: 31 mL
%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.16	0.0021		0.0014	8015M/RSK175M (RSK 175) mg/L	1	10/18/09 10:11

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477556

Project

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910055

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/22/09 15:05

Col Type:

Sample Size: 32 mL

%Moisture:

TestCode: 8015W RSK175

Lab ID: 0910055-003A

Client Sample ID: 0918965-003C,D

Collection Date: 10/08/09 12:25

Date Received: 10/15/09 8:58

PrepDate: 10/18/09 8:51

BatchNo: 10154/R18593

FileID: 1-SAMP-E:\Osioc09\E101808.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.19	0.0020		0.0014	mg/L	1	10/18/09 10:22

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477557

Project

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc. Lab ID: 0910055-004A
Project: ILT091007CL2 Client Sample ID: 0918965-006C,D
W Order: 0910055 Collection Date: 10/08/09 11:10
Matrix: WATER Date Received: 10/15/09 8:58
Inst. ID: GCOS 17E Sample Size: 32 mL PrepDate: 10/18/09 8:51
ColumnID: Alumina %Moisture: BatchNo: 10154/R18593
Revision: 10/22/09 15:05 TestCode: 8015W RSK175 FileID: I-SAMP-E:\Osioc09\101811.r
Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.0089	0.0020	0.0014	mg/L	1		10/18/09 10:54

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477560

Project 5

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.
Project: ILT091007CL2
W Order: 0910055
Matrix: WATER
Inst. ID: GCOS 17E
ColumnID: Alumina
Revision: 10/22/09 15:44
Col Type:

Lab ID: 0910055-005A
Client Sample ID: 0918965-007C,D
Collection Date: 10/08/09 14:15
Date Received: 10/15/09 8:58
PrepDate: 10/18/09 8:51
BatchNo: 10154/R18593
FileID: I-SAMP-E:\Osioc09\101814.r

Sample Size: 32 mL
%Moisture:
TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M (RSK 175)		
Methane	1.1	0.10		0.070	mg/L	50	10/18/09 11:26

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf, column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:45

477585

Project:

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910055

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/22/09 15:05

Col Type:

Sample Size: 32 mL

%Moisture:

TestCode: 8015W RSK175

Lab ID: 0910055-006A

Client Sample ID: 0918965-008C,D

Collection Date: 10/07/09 15:35

Date Received: 10/15/09 8:58

PrepDate: 10/18/09 8:51

BatchNo: 10154/R18593

FileID: 1-SAMP-E:\Osioc09\E101815.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.0029		0.0020	0.0014	mg/L	1	10/18/09 11:59

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477563

Project

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910055

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/22/09 15:05

Col Type:

Sample Size: 32 mL

%Moisture:

TestCode: 8015W RSK175

Lab ID: 0910055-007A

Client Sample ID: 0918965-009C,D

Collection Date: 10/07/09 10:15

Date Received: 10/15/09 8:58

PrepDate: 10/18/09 8:51

BatchNo: 10154/R18593

FileID: I-SAMP-E:\Osioc09\E101817.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M (RSK 175)		
Methane	3.0	0.10		0.070	mg/L	50	10/18/09 12:30

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477564

Project

: Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.
Project: ILT091007CL2
W Order: 0910055
Matrix: WATER
Inst. ID: GCOS 17E
ColumnID: Alumina
Revision: 10/22/09 15:05
Col Type:

Lab ID: 0910055-008A
Client Sample ID: 0918965-010C,D
Collection Date: 10/07/09 8:00
Date Received: 10/15/09 8:58
PrepDate: 10/18/09 8:51
BatchNo: 10154/R18593
FileID: I-SAMP-E:\Osioc09\E101818.r

Sample Size: 32 mL
%Moisture:
TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	0.13		0.0020	0.0014	8015M/RSK175M (RSK 175) mg/L	1	10/18/09 12:45

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477565

Project:

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910055

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/22/09 15:05

Col Type:

Sample Size: 31 mL

%Moisture:

TestCode: 8015W RSK175

Lab ID: 0910055-009A

Client Sample ID: 0918965-011C,D

Collection Date: 10/07/09 10:55

Date Received: 10/15/09 8:58

PrepDate: 10/18/09 8:51

BatchNo: 10154/R18593

FileID: 1-SAMP-E:\Osiocf09\E101820.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M (RSK 175)		
Methane	1.0	0.10		0.072	mg/L	50	10/18/09 13:15

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- II Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477566

Project

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910055

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/22/09 15:05

Col Type:

Lab ID: 0910055-010A

Client Sample ID: 0918965-012C,D

Collection Date: 10/07/09 9:55

Date Received: 10/15/09 8:58

PrepDate: 10/18/09 8:51

BatchNo: 10154/R18593

FileID: 1-SAMP-E:\Osioc09\E101822.r

Sample Size: 32 mL

%Moisture:

TestCode: 8015W RSK175

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							8015M/RSK175M (RSK 175)
Methane	0.44	0.010		0.0070	mg/L	5	10/18/09 13:37

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477567

Project

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910055

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/22/09 15:05

Col Type:

Sample Size: 32 mL

%Moisture:

TestCode: 8015W RSK175

Lab ID: 0910055-011A

Client Sample ID: 0918965-013C,D

Collection Date: 10/07/09 14:20

Date Received: 10/15/09 8:58

PrepDate: 10/18/09 8:51

BatchNo: 10154/R18593

FileID: 1-SAMP-E:\Osioc09\101824.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M (RSK 175)		
Methane	0.0084		0.0020	0.0014	mg/L	1	10/18/09 14:13

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- II Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477569

Project

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.
Project: ILT091007CL2
W Order: 0910055
Matrix: WATER
Inst. ID: GCOS 17E
ColumnID: Alumina
Revision: 10/22/09 15:05
Col Type:
Lab ID: 0910055-012A
Client Sample ID: 0918965-014C,D
Collection Date: 10/07/09 14:05
Date Received: 10/15/09 8:58
PrepDate: 10/18/09 8:51
BatchNo: 10154/R18593
TestCode: 8015W RSK175
FileID: 1-SAMP-E:\Osioc09\101825.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							8015M/RSK175M (RSK 175)
Methane	0.0082		0.0020	0.0014	mg/L	1	10/18/09 14:23

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477570

Project

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910055

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/22/09 15:05

Col Type:

Sample Size: 32 mL

%Moisture:

TestCode: 8015W RSK175

Lab ID: 0910055-013A

Client Sample ID: 0918965-015C,D

Collection Date: 10/07/09 10:40

Date Received: 10/15/09 8:58

PrepDate: 10/18/09 8:51

BatchNo: 10154/R18593

FileID: I-SAMP-EA\Osioc09\101829.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M (RSK 175)		
Methane	0.0078		0.0020	0.0014	mg/L	1	10/18/09 15:21

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477573

Project

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910055

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/22/09 15:05

Col Type:

Sample Size: 32 mL

%Moisture:

TestCode: 8015W RSK175

Lab ID: 0910055-014A

Client Sample ID: 0918965-016C,D

Collection Date: 10/07/09 0:00

Date Received: 10/15/09 8:58

PrepDate: 10/18/09 8:51

BatchNo: 10154/R18593

FileID: 1-SAMP-E:\Osioc09\E101826.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID					8015M/RSK175M (RSK 175)		
Methane	0.0059	0.0020		0.0014	mg/L	1	10/18/09 14:37

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 10/22/09 15:25

477571

Project:

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.
Project: ILT091007CL2
W Order: 0910055
Matrix: WATER
Inst. ID: GCOS 17E
ColumnID: Alumina
Revision: 10/28/09 14:43
Col Type:
Lab ID: 0910055-015A
Client Sample ID: 0918965-017C,D
Collection Date: 10/08/09 9:25
Date Received: 10/15/09 8:58
PrepDate: 10/18/09 8:51
BatchNo: 10154/R18593
TestCode: 8015W RSK175
FileID: 1-SAMP-EA\Osioc09\E101828.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	1.3	0.10		0.070	mg/L	50	10/18/09 15:10

Qualifiers:
* Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

Print Date: 10/28/09 14:44

478637

Project

917

Anthony Crescenzi



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: Life Science Laboratories, Inc.

Project: ILT091007CL2

W Order: 0910055

Matrix: WATER

Inst. ID: GCOS 17E

ColumnID: Alumina

Revision: 10/28/09 14:43

Col Type:

Sample Size: 34 mL

%Moisture:

TestCode: 8015W RSK175

Lab ID: 0910055-016A

Client Sample ID: 0918965-018C,D

Collection Date: 10/07/09 14:37

Date Received: 10/15/09 8:58

PrepDate: 10/18/09 8:51

BatchNo: 10154/R18593

FileID: I-SAMP-E\Osioc09\E101830.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
DISSOLVED GASES BY GC/FID							
Methane	ND		0.0019	0.0013	mg/L	1	10/18/09 15:31

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

Print Date: 10/28/09 14:44

478638

Project

918

: Anthony Crescenzi

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-11-10/09 LSL Sample ID: 0918965-001

Location:

Sampled: 10/08/09 11:50 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	1.6	mg/l		10/18/09 10:02	BL
(6) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	510	mg/l	10/13/09	10/21/09	BL
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	49	ug/l		10/22/09	CRT
Ethyl benzene	11	ug/l		10/22/09	CRT
Xylenes (Total)	16	ug/l		10/22/09	CRT
Surrogate (1,2-DCA-d4)	117	%R		10/22/09	CRT
Surrogate (Tol-d8)	101	%R		10/22/09	CRT
Surrogate (4-BFB)	96	%R		10/22/09	CRT
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/9/09 16:56	RAF
Sulfate	4.5	mg/l		10/9/09 16:56	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	360	mg/l		10/15/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		10/15/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		10/15/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-14-10/09 LSL Sample ID: 0918965-002

Location:

Sampled: 10/08/09 9:55 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	0.16	mg/l		10/18/09 10:11	BL
(6) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	470	mg/l	10/13/09	10/21/09	BL
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	3.9	ug/l		10/22/09	CRT
Ethyl benzene	<1	ug/l		10/22/09	CRT
Xylenes (Total)	<2	ug/l		10/22/09	CRT
Surrogate (1,2-DCA-d4)	112	%R		10/22/09	CRT
Surrogate (Tol-d8)	99	%R		10/22/09	CRT
Surrogate (4-BFB)	95	%R		10/22/09	CRT
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/9/09 17:13	RAF
Sulfate	45	mg/l		10/9/09 17:13	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	340	mg/l		10/15/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		10/15/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		10/15/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-15-10/09 LSL Sample ID: 0918965-003

Location:

Sampled: 10/08/09 12:25 Sampled By: Client

Sample Matrix: NPW

Analytical Method			Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units			
(6) Dissolved Gases					
Methane	0.19	mg/l		10/18/09 10:22	BL
(6) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	420	mg/l	10/13/09	10/21/09	BL
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	10	ug/l		10/20/09	BD
Ethyl benzene	11	ug/l		10/20/09	BD
Xylenes (Total)	<2	ug/l		10/20/09	BD
Surrogate (1,2-DCA-d4)	94	%R		10/20/09	BD
Surrogate (Tol-d8)	102	%R		10/20/09	BD
Surrogate (4-BFB)	102	%R		10/20/09	BD
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/9/09 17:31	RAF
Sulfate	31	mg/l		10/9/09 17:31	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	340	mg/l		10/15/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		10/15/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		10/15/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-16-10/09

LSL Sample ID: 0918965-006

Location:

Sampled: 10/08/09 11:10

Sampled By: Client

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(6)	Dissolved Gases					
	Methane	0.0089	mg/l		10/18/09 10:54	BL
(6)	EPA 200.7 Total Hardness as CaCO3					
	Hardness, Total	550	mg/l	10/13/09	10/21/09	BL
(1)	EPA 350.1, Rev 2.0 Ammonia					
	Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1)	EPA 8260 BTEX					
	Benzene	<1	ug/l		10/22/09	CRT
	Ethyl benzene	<1	ug/l		10/22/09	CRT
	Xylenes (Total)	<2	ug/l		10/22/09	CRT
	Surrogate (1,2-DCA-d4)	115	%R		10/22/09	CRT
	Surrogate (Tol-d8)	102	%R		10/22/09	CRT
	Surrogate (4-BFB)	96	%R		10/22/09	CRT
(1)	EPA Method 300.0 A					
	Sulfate	63	mg/l		10/21/09 19:02	RAF
(1)	SM 18 2320B, Alkalinity as CaCO3					
	Bicarbonate Alkalinity as CaCO3	370	mg/l		10/15/09	TER
	Carbonate Alkalinity as CaCO3	<3	mg/l		10/15/09	TER
	Hydroxide Alkalinity as CaCO3	<3	mg/l		10/15/09	TER

- - LABORATORY ANALYSIS REPORT - -

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-17-10/09 LSL Sample ID: 0918965-007

Location:

Sampled: 10/08/09 14:15 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	1.1	mg/l		10/18/09 11:26	BL
(6) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	540	mg/l	10/13/09	10/21/09	BL
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	0.22	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		10/22/09	CRT
Ethyl benzene	<1	ug/l		10/22/09	CRT
Xylenes (Total)	<2	ug/l		10/22/09	CRT
Surrogate (1,2-DCA-d4)	109	%R		10/22/09	CRT
Surrogate (Tol-d8)	99	%R		10/22/09	CRT
Surrogate (4-BFB)	95	%R		10/22/09	CRT
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/9/09 18:41	RAF
Sulfate	19	mg/l		10/9/09 18:41	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	370	mg/l		10/15/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		10/15/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		10/15/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-18-10/09 LSL Sample ID: 0918965-008

Location:

Sampled: 10/07/09 15:35 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	0.0029	mg/l		10/18/09 11:59	BL
(6) EPA 200.7 Total Hardness as CaCO ₃					
Hardness, Total	430	mg/l	10/13/09	10/21/09	BL
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		10/20/09	BD
Ethyl benzene	<1	ug/l		10/20/09	BD
Xylenes (Total)	<2	ug/l		10/20/09	BD
Surrogate (1,2-DCA-d4)	82	%R		10/20/09	BD
Surrogate (Tol-d8)	101	%R		10/20/09	BD
Surrogate (4-BFB)	107	%R		10/20/09	BD
(1) EPA Method 300.0 A					
Sulfate	14	mg/l		10/21/09 19:20	RAF
(1) SM 18 2320B, Alkalinity as CaCO ₃					
Bicarbonate Alkalinity as CaCO ₃	390	mg/l		10/15/09	TER
Carbonate Alkalinity as CaCO ₃	<3	mg/l		10/15/09	TER
Hydroxide Alkalinity as CaCO ₃	<3	mg/l		10/15/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-19-10/09 LSL Sample ID: 0918965-009

Location:

Sampled: 10/07/09 10:15 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	3.0	mg/l		10/18/09 12:30	BL
(6) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	550	mg/l	10/13/09	10/21/09	BL
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	0.16	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	<10	ug/l		10/20/09	BD
Ethyl benzene	380	ug/l		10/20/09	BD
Xylenes (Total)	420	ug/l		10/20/09	BD
Surrogate (1,2-DCA-d4)	91	%R		10/20/09	BD
Surrogate (Tol-d8)	101	%R		10/20/09	BD
Surrogate (4-BFB)	102	%R		10/20/09	BD
(1) EPA Method 300.0 A					
Sulfate	4.9	mg/l		10/21/09 19:37	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	340	mg/l		10/15/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		10/15/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		10/15/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-20-10/09 LSL Sample ID: 0918965-010

Location:

Sampled: 10/07/09 8:00 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	0.13	mg/l		10/18/09 12:45	BL
(6) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	330	mg/l	10/13/09	10/21/09	BL
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		10/20/09	BD
Ethyl benzene	<1	ug/l		10/20/09	BD
Xylenes (Total)	<2	ug/l		10/20/09	BD
Surrogate (1,2-DCA-d4)	80	%R		10/20/09	BD
Surrogate (Tol-d8)	103	%R		10/20/09	BD
Surrogate (4-BFB)	103	%R		10/20/09	BD
(1) EPA Method 300.0 A					
Sulfate	9.4	mg/l		10/21/09 19:55	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	350	mg/l		10/15/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		10/15/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		10/15/09	TER

- - LABORATORY ANALYSIS REPORT - -

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-22-10/09 LSL Sample ID: 0918965-011

Location:

Sampled: 10/07/09 10:55 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	1.0	mg/l		10/18/09 13:15	BL
(6) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	570	mg/l	10/13/09	10/21/09	BL
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	5.6	ug/l		10/20/09	BD
Ethyl benzene	21	ug/l		10/20/09	BD
Xylenes (Total)	3.0	ug/l		10/20/09	BD
Surrogate (1,2-DCA-d4)	81	%R		10/20/09	BD
Surrogate (Tol-d8)	102	%R		10/20/09	BD
Surrogate (4-BFB)	106	%R		10/20/09	BD
(1) EPA Method 300.0 A					
Sulfate	31	mg/l		10/21/09 20:13	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	410	mg/l		10/15/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		10/15/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		10/15/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-101-10/09

LSL Sample ID: 0918965-012

Location:

Sampled: 10/07/09 9:55

Sampled By: Client

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(6)	Dissolved Gases					
	Methane	0.44	mg/l		10/18/09 13:37	BL
(6)	EPA 200.7 Total Hardness as CaCO3					
	Hardness, Total	490	mg/l	10/13/09	10/21/09	BL
(1)	EPA 350.1, Rev 2.0 Ammonia					
	Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1)	EPA 8260 BTEX					
	Benzene	<1	ug/l		10/20/09	BD
	Ethyl benzene	7.9	ug/l		10/20/09	BD
	Xylenes (Total)	7.4	ug/l		10/20/09	BD
	Surrogate (1,2-DCA-d4)	92	%R		10/20/09	BD
	Surrogate (Tol-d8)	99	%R		10/20/09	BD
	Surrogate (4-BFB)	104	%R		10/20/09	BD
(1)	EPA Method 300.0 A					
	Sulfate	42	mg/l		10/9/09 19:16	RAF
(1)	SM 18 2320B, Alkalinity as CaCO3					
	Bicarbonate Alkalinity as CaCO3	360	mg/l		10/15/09	TER
	Carbonate Alkalinity as CaCO3	<3	mg/l		10/15/09	TER
	Hydroxide Alkalinity as CaCO3	<3	mg/l		10/15/09	TER

Life Sciences

24

atories, Inc.

Page 13 of 32

Date Printed: 10/29/09

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL

es, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-102-10/09 LSL Sample ID: 0918965-013

Location:

Sampled: 10/07/09 14:20 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	0.0084	mg/l		10/18/09 14:13	BL
(6) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	640	mg/l	10/13/09	10/21/09	BL
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		10/20/09	BD
Ethyl benzene	<1	ug/l		10/20/09	BD
Xylenes (Total)	<2	ug/l		10/20/09	BD
Surrogate (1,2-DCA-d4)	83	%R		10/20/09	BD
Surrogate (Tol-d8)	100	%R		10/20/09	BD
Surrogate (4-BFB)	103	%R		10/20/09	BD
(1) EPA Method 300.0 A					
Sulfate	5.0	mg/l		10/9/09 19:34	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	340	mg/l		10/15/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		10/15/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		10/15/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt DeWitt, NY

Sample ID: ANG-MW-108-10/09

LSL Sample ID: 0918965-014

Location:

Sampled: 10/07/09 14:05 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	0.0082	mg/l		10/18/09 14:23	BL
(6) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	540	mg/l	10/13/09	10/21/09	BL
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		10/22/09	CRT
Ethyl benzene	<1	ug/l		10/22/09	CRT
Xylenes (Total)	<2	ug/l		10/22/09	CRT
Surrogate (1,2-DCA-d4)	128	%R		10/22/09	CRT
Surrogate (Tol-d8)	98	%R		10/22/09	CRT
Surrogate (4-BFB)	95	%R		10/22/09	CRT
(1) EPA Method 300.0 A					
Sulfate	44	mg/l		10/21/09 20:30	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	380	mg/l		10/15/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		10/15/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		10/15/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-109-10/09 LSL Sample ID: 0918965-015

Location:

Sampled: 10/07/09 10:40 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	0.0078	mg/l		10/18/09 15:21	BL
(6) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	420	mg/l	10/13/09	10/21/09	BL
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		10/22/09	CRT
Ethyl benzene	<1	ug/l		10/22/09	CRT
Xylenes (Total)	<2	ug/l		10/22/09	CRT
Surrogate (1,2-DCA-d4)	125	%R		10/22/09	CRT
Surrogate (Tol-d8)	101	%R		10/22/09	CRT
Surrogate (4-BFB)	101	%R		10/22/09	CRT
(1) EPA Method 300.0 A					
Sulfate	65	mg/l		10/21/09 21:23	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	340	mg/l		10/15/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		10/15/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		10/15/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-DUPE 2-10/09 LSL Sample ID: 0918965-016

Location:

Sampled: 10/07/09 0:00 Sampled By: Client

Sample Matrix: QC

Analytical Method			Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units			
(6) Dissolved Gases					
Methane	0.0059	mg/l		10/18/09 14:37	BL
(6) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	560	mg/l	10/13/09	10/21/09	BL
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	0.15	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	3.9	ug/l		10/22/09	CRT
Ethyl benzene	440	ug/l		10/22/09	CRT
Xylenes (Total)	470	ug/l		10/22/09	CRT
Surrogate (1,2-DCA-d4)	140	%R		10/22/09	CRT
Surrogate (Tol-d8)	96	%R		10/22/09	CRT
Surrogate (4-BFB)	91	%R		10/22/09	CRT
<i>Surrogate recoveries for this analysis were above established control limits. Sample results may be biased high.</i>					
(1) EPA Method 300.0 A					
Sulfate	5.5	mg/l		10/21/09 21:41	RAF
(1) SM 18 2320B, Alkalinity as CaCO3					
Bicarbonate Alkalinity as CaCO3	340	mg/l		10/15/09	TER
Carbonate Alkalinity as CaCO3	<3	mg/l		10/15/09	TER
Hydroxide Alkalinity as CaCO3	<3	mg/l		10/15/09	TER

ERM, Inc. - DeWitt Dewitt, NY

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-EB-02-10/09 LSL Sample ID: 0918965-018

Location:

Sampled: 10/07/09 14:37 Sampled By: Client

Sample Matrix: QC

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(6) Dissolved Gases					
Methane	<0.0020	mg/l		10/18/09 15:31	BL
(6) EPA 200.7 Total Hardness as CaCO ₃					
Hardness, Total	ND	mg/l	10/13/09	10/21/09	BL
(1) EPA 350.1, Rev 2.0 Ammonia					
Ammonia as N	<0.03	mg/l		10/22/09	DRB
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		10/22/09	CRT
Ethyl benzene	<1	ug/l		10/22/09	CRT
Xylenes (Total)	<2	ug/l		10/22/09	CRT
Surrogate (1,2-DCA-d4)	137	%R		10/22/09	CRT
Surrogate (Tol-d8)	98	%R		10/22/09	CRT
Surrogate (4-BFB)	93	%R		10/22/09	CRT

Surrogate recoveries for this analysis were above established control limits. Sample results may be biased high.

(1) EPA Method 300.0 A					
Sulfate	<1	mg/l		10/21/09 21:58	RAF
(1) SM 18 2320B, Alkalinity as CaCO ₃					
Bicarbonate Alkalinity as CaCO ₃	<3	mg/l		10/15/09	TER
Carbonate Alkalinity as CaCO ₃	<3	mg/l		10/15/09	TER
Hydroxide Alkalinity as CaCO ₃	<3	mg/l		10/15/09	TER

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-TB-2-10/09

LSL Sample ID: 0918965-019

Location:

Sampled: 10/08/09 0:00

Sampled By: Client

Sample Matrix: TB

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 8260 BTEX					
Benzene	<1	ug/l		10/22/09	CRT
Ethyl benzene	<1	ug/l		10/22/09	CRT
Xylenes (Total)	<2	ug/l		10/22/09	CRT
Surrogate (1,2-DCA-d4)	124	%R		10/22/09	CRT
Surrogate (Tol-d8)	96	%R		10/22/09	CRT
Surrogate (4-BFB)	93	%R		10/22/09	CRT

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-16-10/09 LSL Sample ID: 0918965-020

Location:

Sampled: 10/12/09 11:30 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/12/09 17:43	CRT

-- - LABORATORY ANALYSIS REPORT -- -

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-18-10/09 LSL Sample ID: 0918965-021

Location:

Sampled: 10/12/09 10:50 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(7) EPA Method 300.0 A					
Nitrate as N	0.23	mg/l		10/12/09 18:01	CRT

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-19-10/09 LSL Sample ID: 0918965-022

Location:

Sampled: 10/12/09 13:00 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/12/09 18:18	CRT

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-20-10/09 LSL Sample ID: 0918965-023

Location:

Sampled: 10/12/09 13:30 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/12/09 18:36	CRT

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-15-10/09 LSL Sample ID: 0918965-024

Location:

Sampled: 10/12/09 13:45 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
-------------------	--------	-------	-----------	----------------------	------------------

(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/12/09 18:53	CRT

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-22-10/09

LSL Sample ID: 0918965-025

Location:

Sampled: 10/12/09 11:15

Sampled By: Client

Sample Matrix: NPW

Analytical Method

Analyte

Result Units

Prep
Date

Analysis
Date & Time

Analyst
Initials

(1) EPA Method 300.0 A

Nitrate as N

<0.1 mg/l

10/12/09 19:11

CRT

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-101-10/09 LSL Sample ID: 0918965-026

Location:

Sampled: 10/12/09 11:05 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA Method 300.0 A					
Nitrate as N	0.25	mg/l		10/12/09 19:28	CRT

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-102-10/09 LSL Sample ID: 0918965-027

Location:

Sampled: 10/12/09 12:10 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/12/09 20:21	CRT

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-108-10/09 LSL Sample ID: 0918965-028

Location:

Sampled: 10/12/09 12:25 Sampled By: Client

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/12/09 20:39	CRT

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-MW-109-10/09

LSL Sample ID: 0918965-029

Location:

Sampled: 10/12/09 11:50

Sampled By: Client

Sample Matrix: NPW

Analytical Method

Analyte

Result

Units

Prep
Date

Analysis
Date & Time

Analyst
Initials

(1) EPA Method 300.0 A

Nitrate as N

1.2 mg/l

10/12/09 20:56

CRT

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-DUP-2-10/09 LSL Sample ID: 0918965-030

Location:

Sampled: 10/12/09 0:00 Sampled By: Client

Sample Matrix: QC

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/12/09 21:14	CRT

Life Science

42

tories, Inc.

Date Printed: 10/29/09

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL F

s, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

Page 31 of 32

-- LABORATORY ANALYSIS REPORT --

ERM, Inc. - DeWitt Dewitt, NY

Sample ID: ANG-EB-02-10/09 LSL Sample ID: 0918965-031

Location:

Sampled: 10/12/09 10:55 Sampled By: Client

Sample Matrix: QC

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA Method 300.0 A					
Nitrate as N	<0.1	mg/l		10/12/09 21:32	CRT